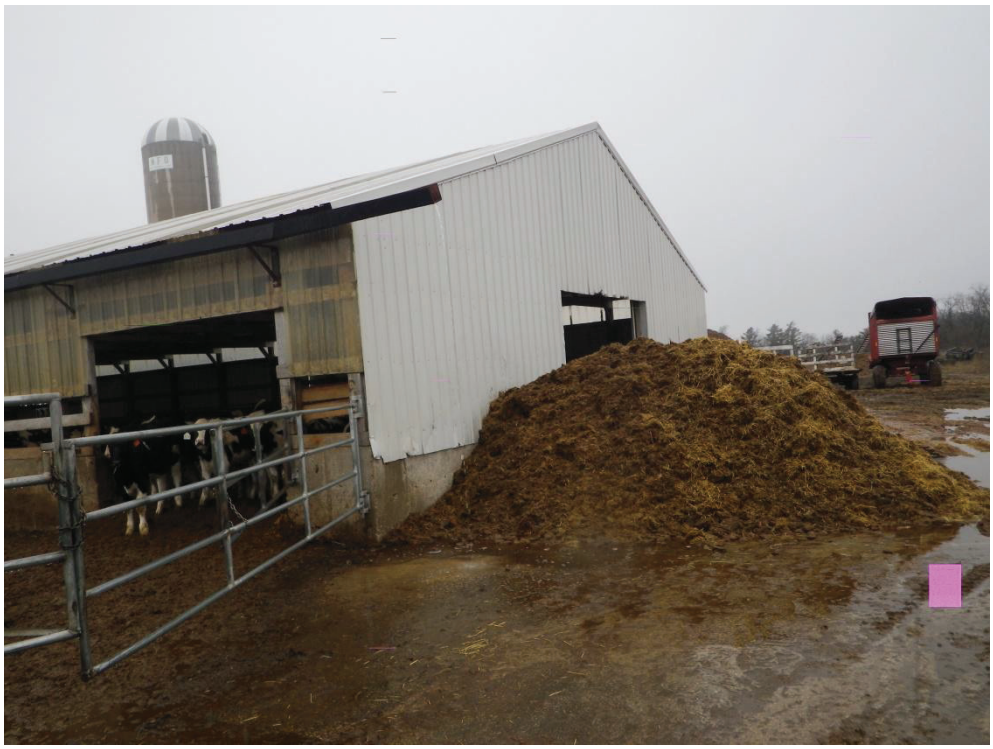
ATTACHMENT 2: INSPECTION PHOTOGRAPHS



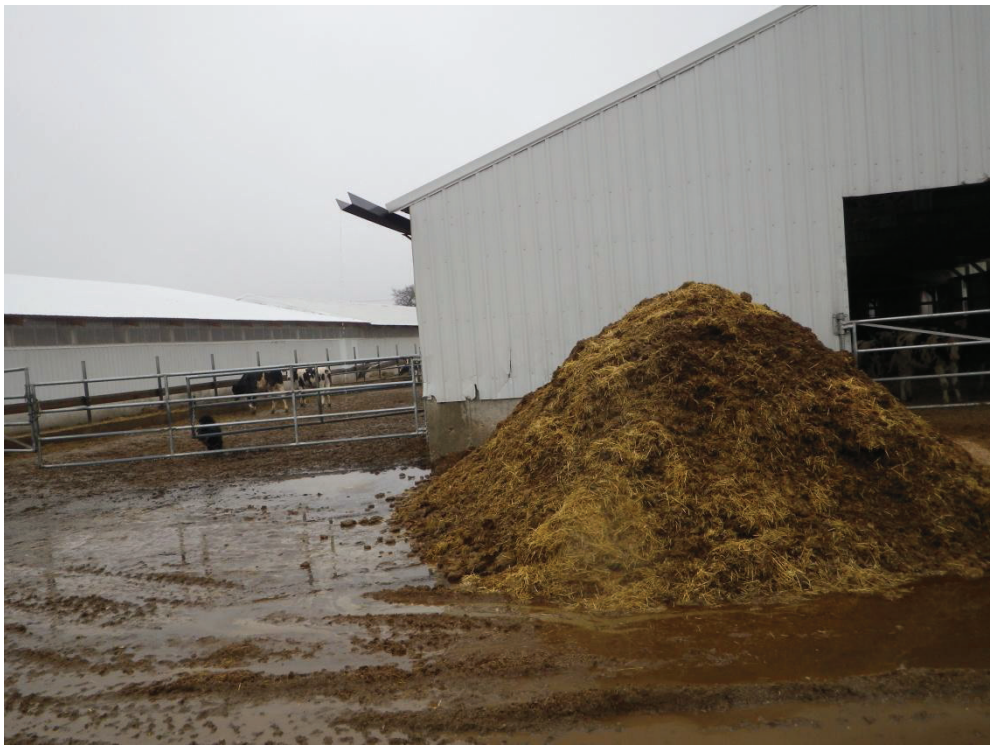
1: IMGP0254.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: A stockpile of used bedding material was located east of Calf Barn 2. The process wastewater from the open lot and stockpile had no containment and could flow east off site to unnamed tributary on the east side of the site.



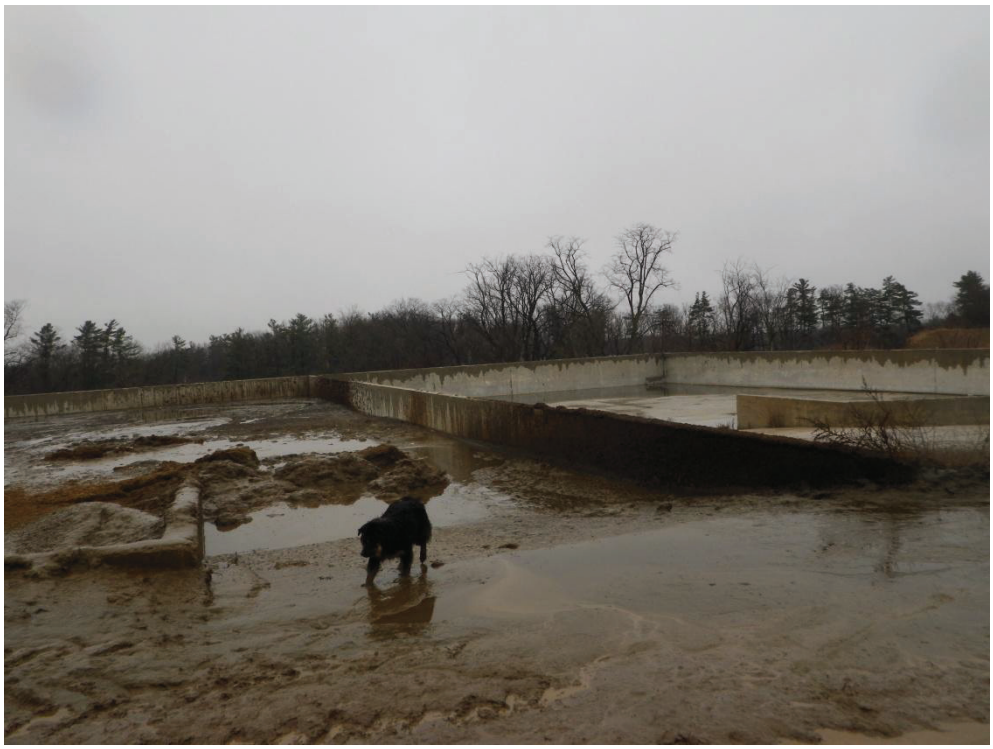
2: IMGP0255.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: West

Description: A stockpile of used bedding material was located east of Calf Barn 2. The process wastewater from the open lot and stockpile had no containment and could flow east off site to unnamed tributary.



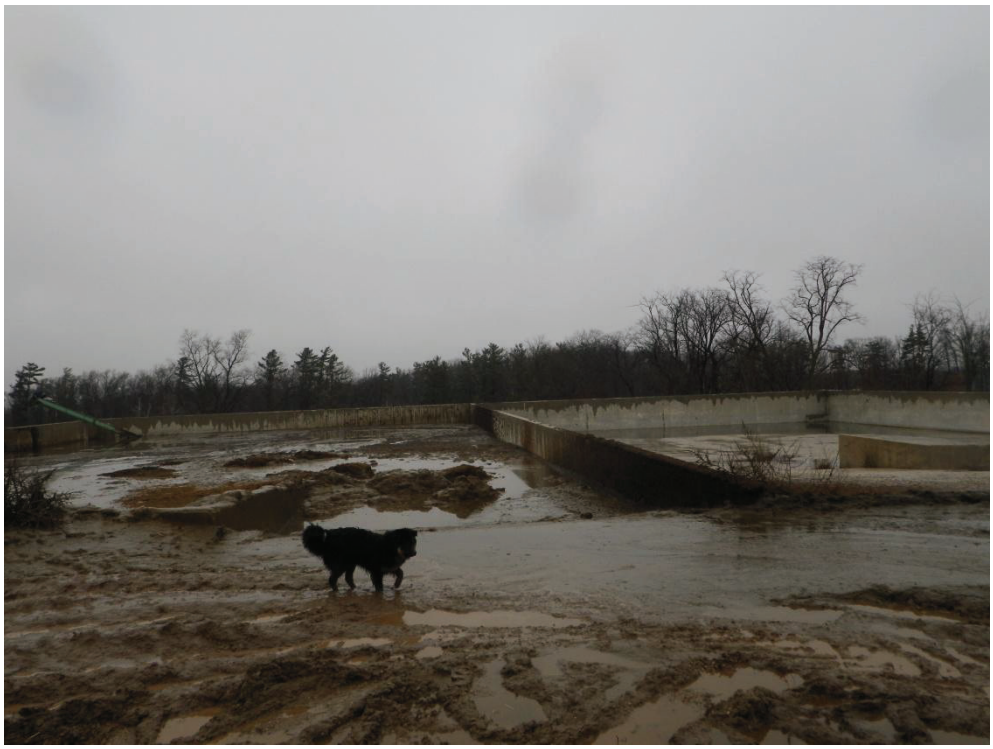
3: IMGP0256.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: The west concrete pit was approximately half full. The east concrete pit was nearly empty. The water in the east pit was dark and smelled septic.



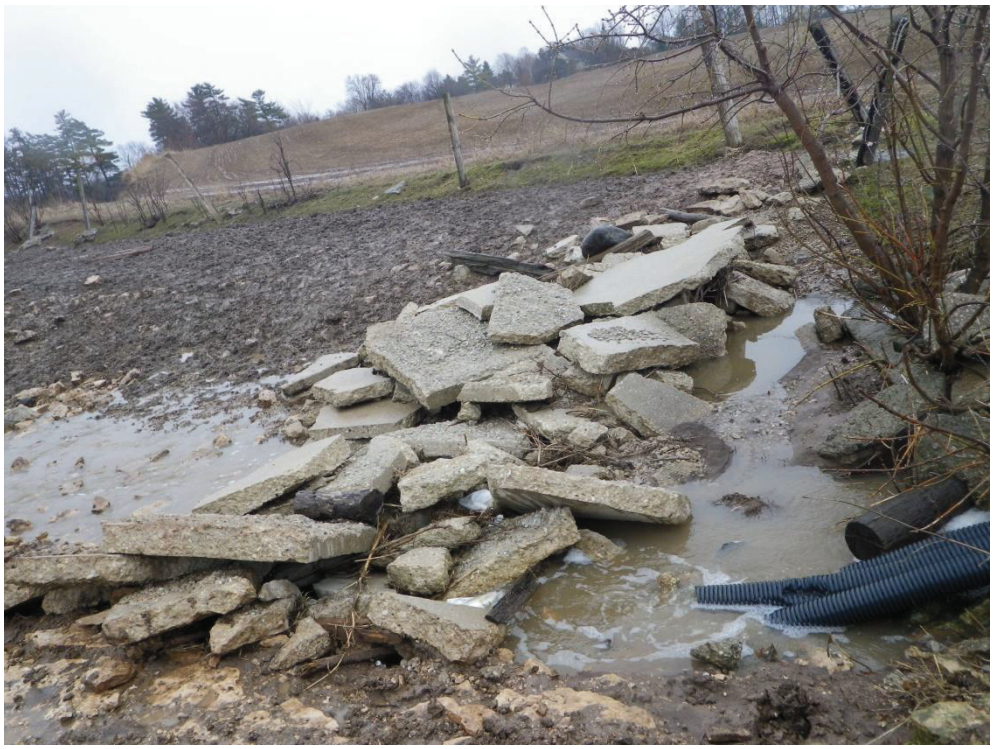
4: IMGP0257.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: The west concrete pit was approximately half full. The east concrete pit was nearly empty. The water in the east pit was dark and smelled septic.



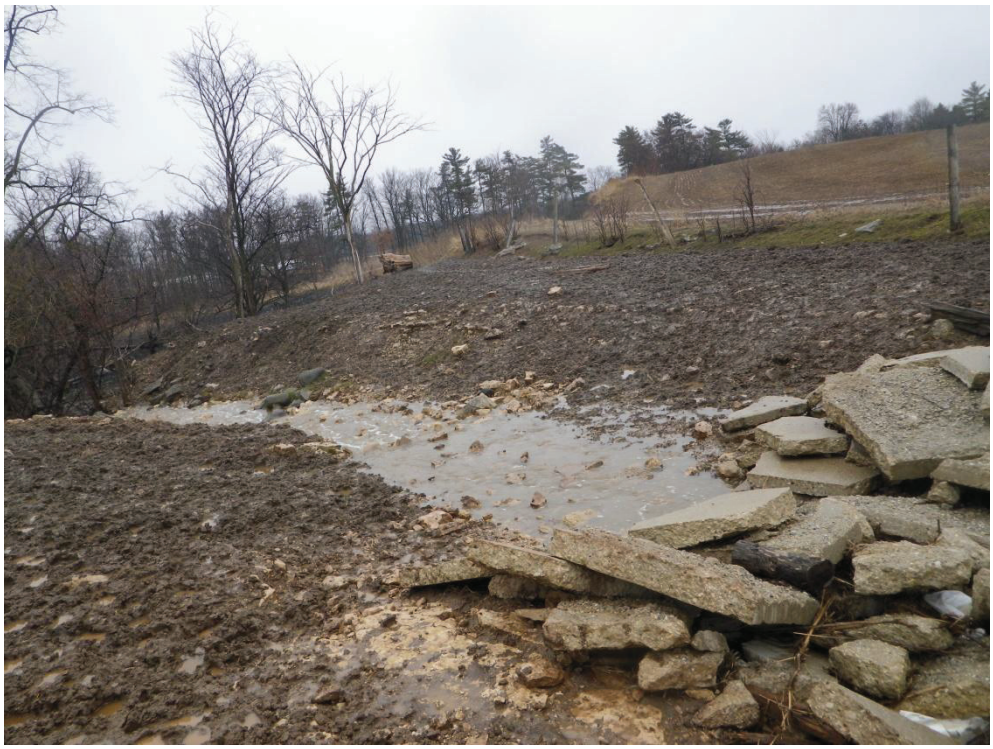
5: IMGP0258.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: East

Description: An unnamed tributary flows along the east end of the production area. Cattle had direct access to the unnamed tributary through an open lot. Manure was observed in and around the tributary.



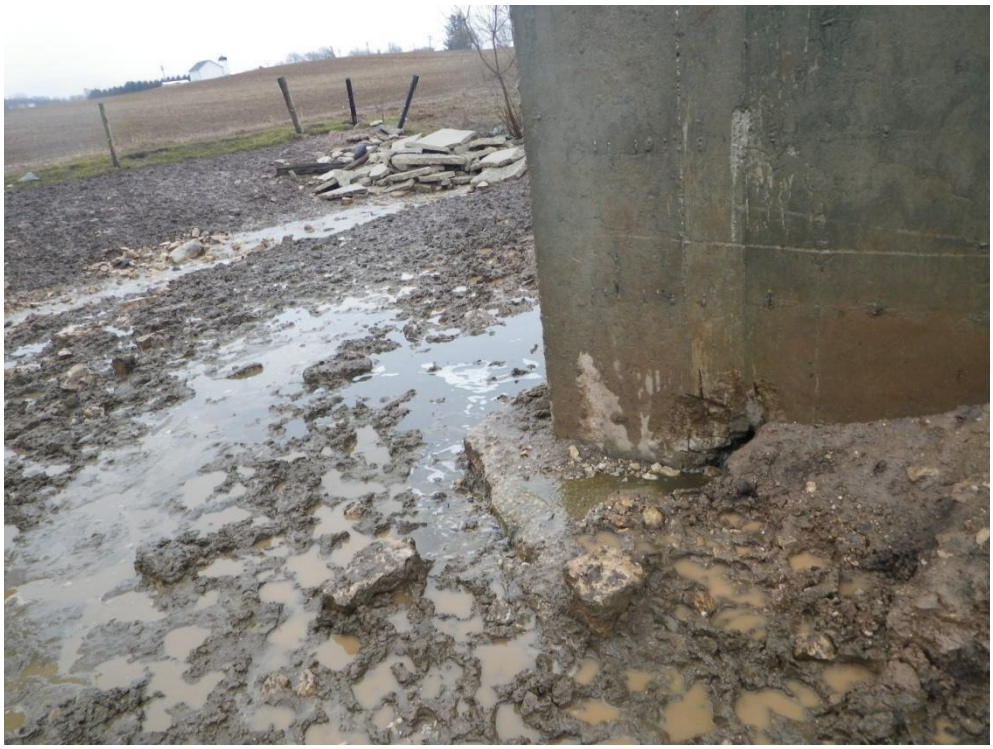
6: IMGP0259.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: An unnamed tributary flows along the east end of the production area. Cattle had direct access to the unnamed tributary through an open lot. Manure was observed in and around the tributary.



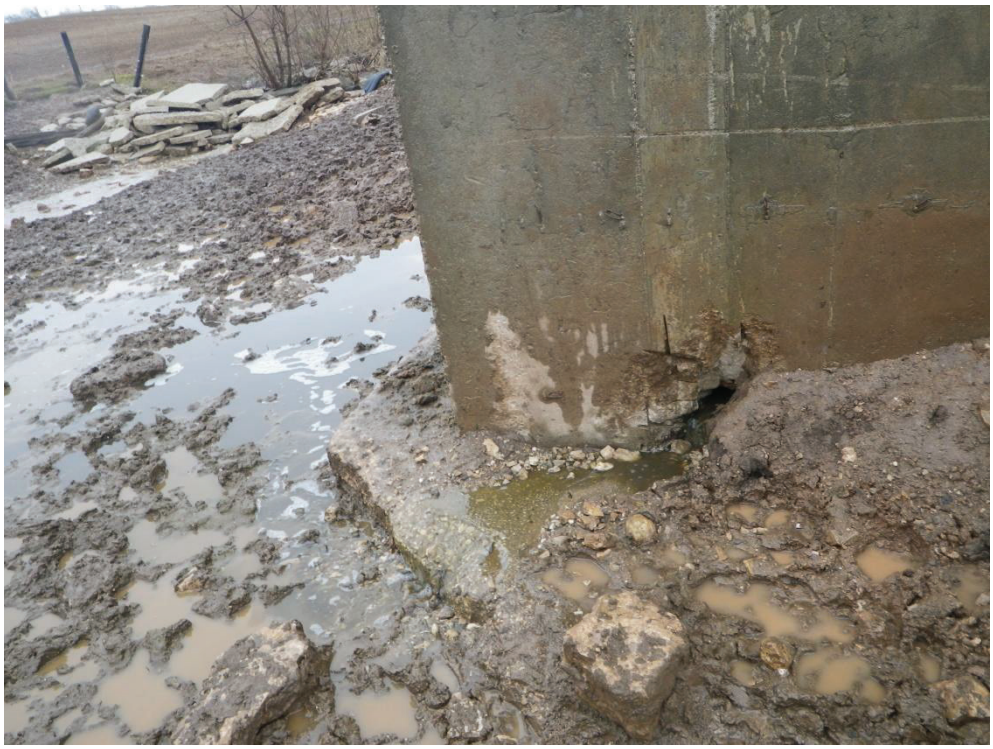
7: IMGP0260.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: Southeast

Description: A hole was observed in the corner of the east concrete pit. Mr. [redacted] said the pit was currently not used for manure storage. The discharge from the hole in the pit was dark in color and had a septic smell of wastewater. The flow from the hole in the east concrete pit flowed east and entered the unnamed tributary.



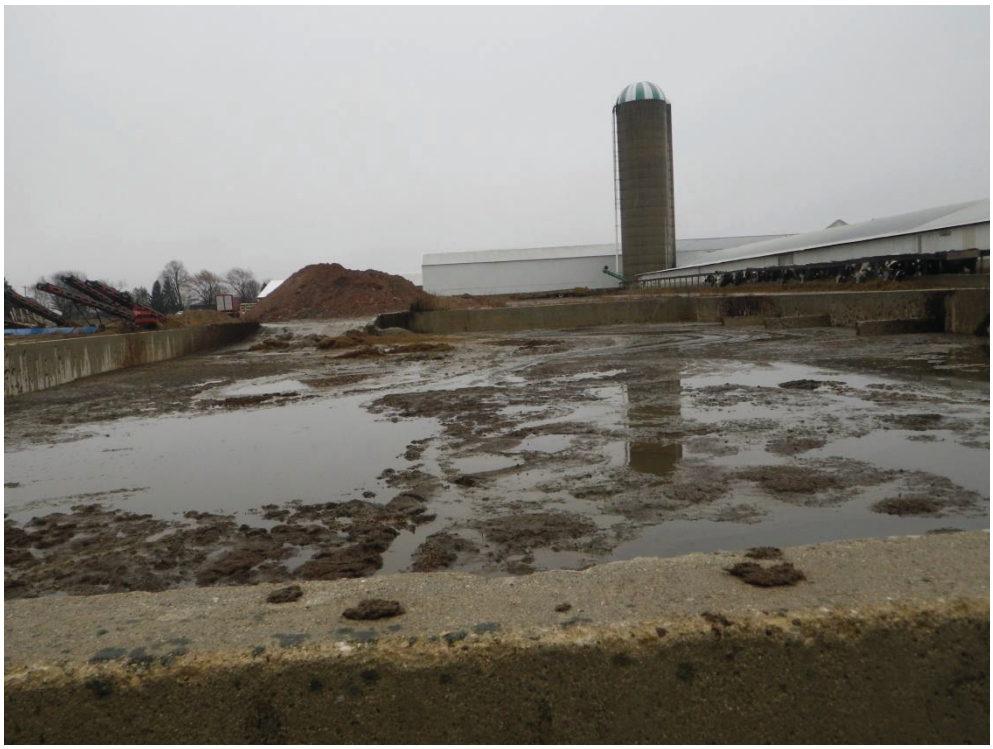
8: IMGP0261.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: Southeast

Description: A hole was observed in the corner of the east concrete pit. Mr. [redacted] said the pit was currently not used for manure storage. The discharge from the hole in the pit was dark in color and had a septic smell of wastewater. The flow from the hole in the east concrete pit flowed east and entered the unnamed tributary.



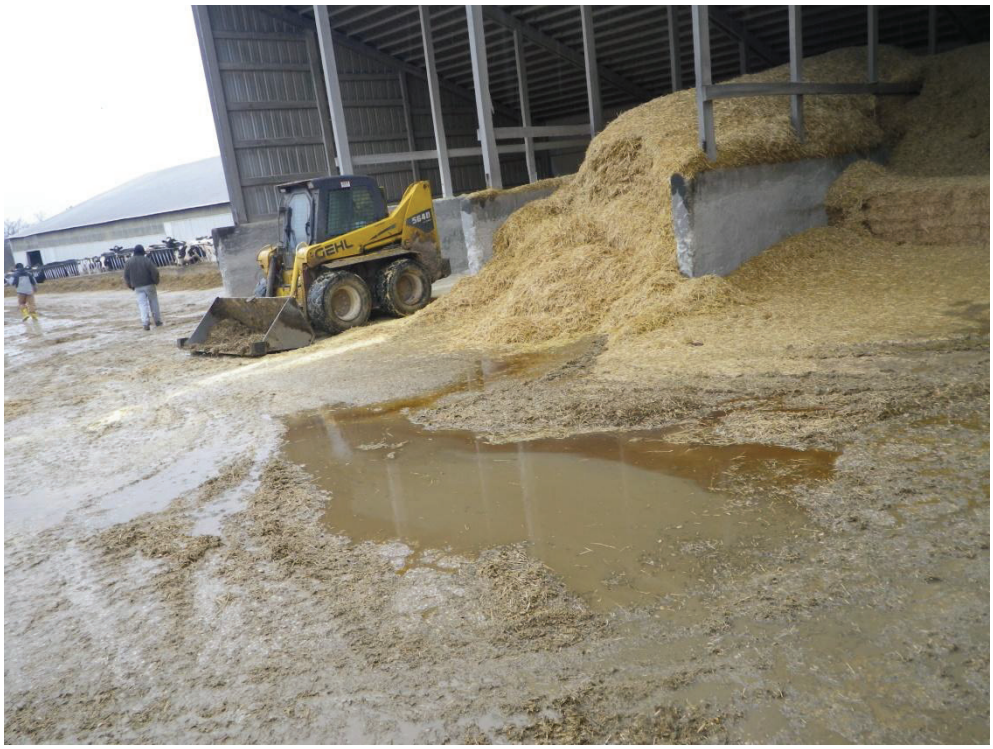
9: IMGP0262.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: The west concrete manure storage pit was approximately half full.



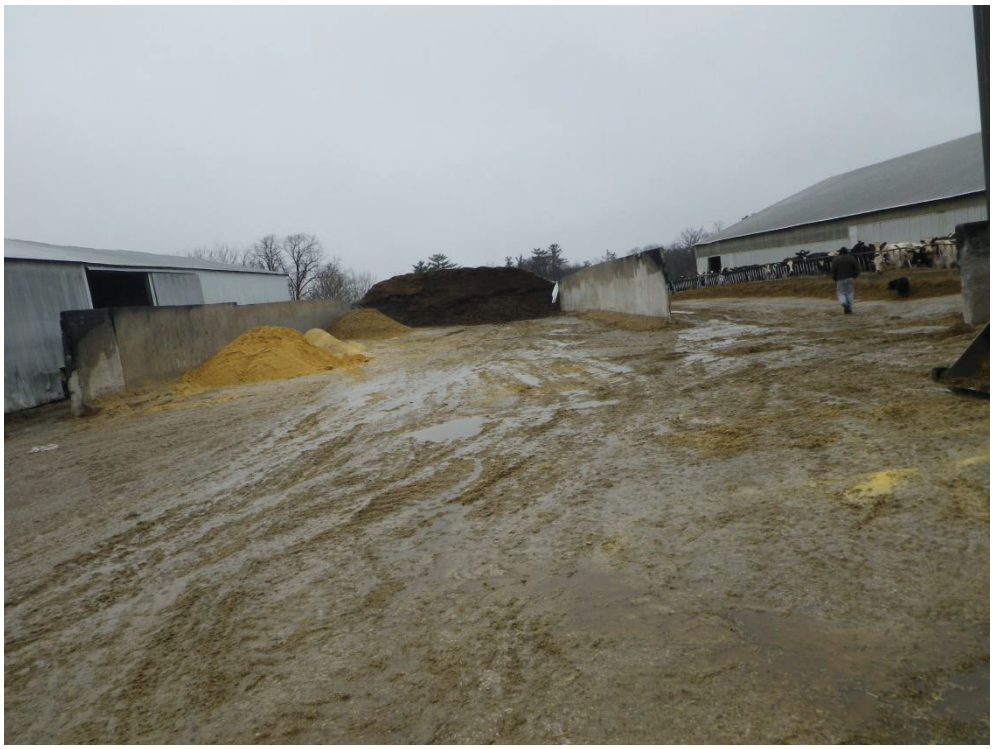
10: IMGP0263.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: Northeast

Description: Track out of feed was located on the access way from the commodity storage area. The process wastewater flowed north.



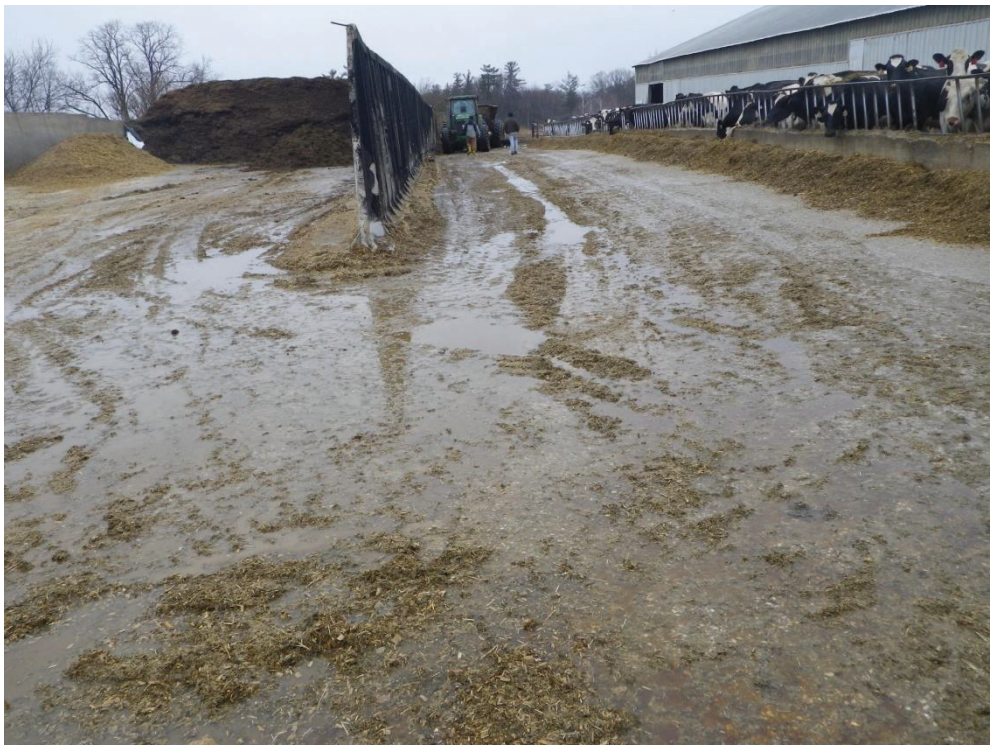
11: IMGP0264.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: The feed storage bunker did not have containment for process wastewater. Feed was observed on the ground throughout the area. The area drains to the north.



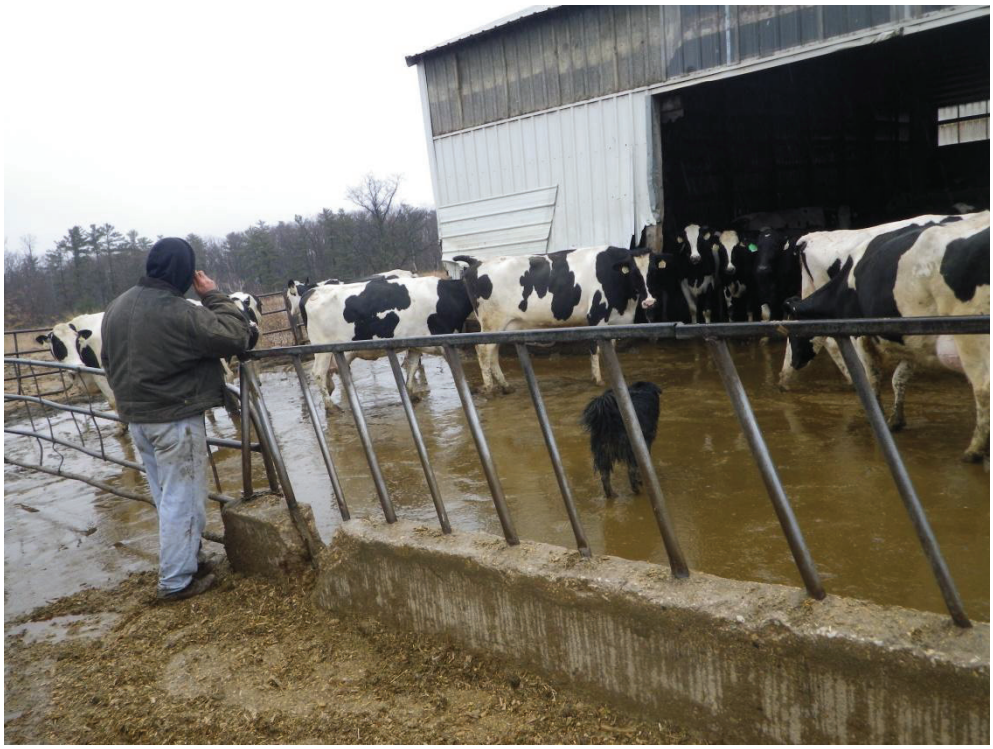
12: IMGP0265.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: The access way contained feed solids and process wastewater that flowed to the north. The open lot did not have containment for manure and process waste water; the runoff flows north.



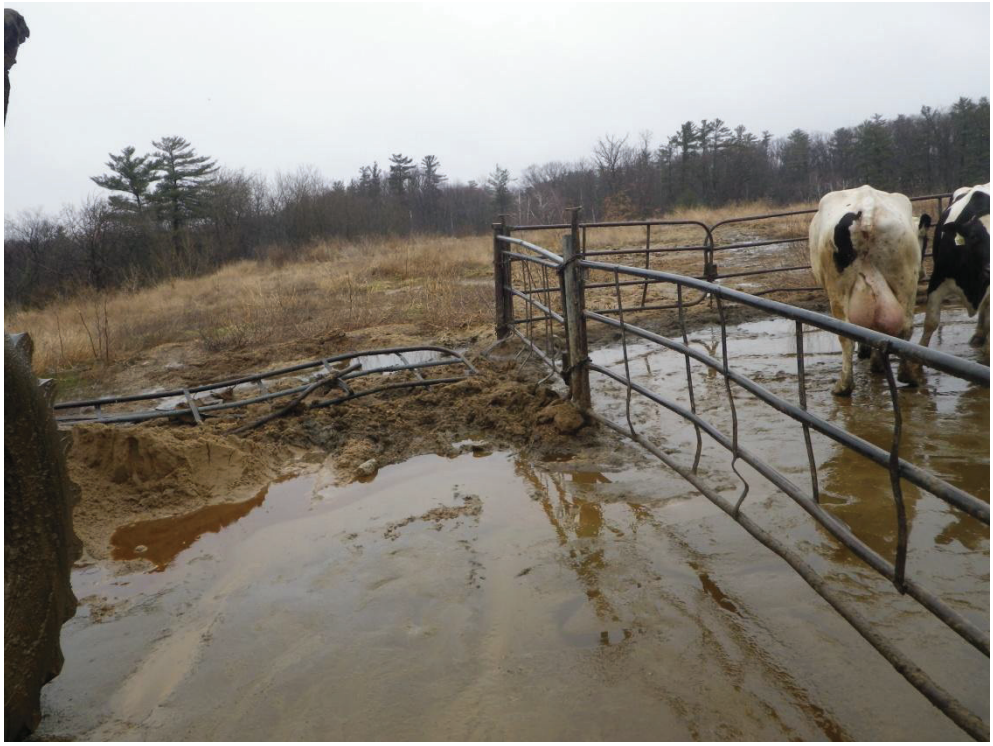
13: IMGP0266.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: Northeast

Description: The manure and process wastewater from the open lot drains north.



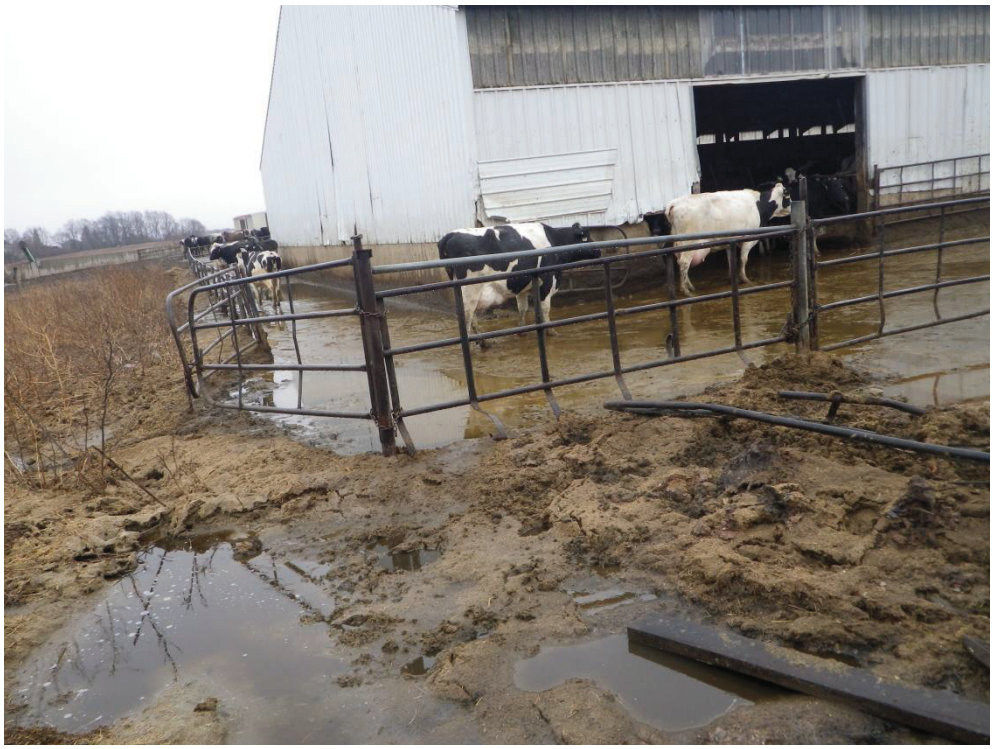
14: IMGP0267.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: Feed solids, bedding, manure, and process waste water flowed north between the Feed Bunker and Milk Cow Barn and outlet into a field that was once used as an open lot. Feed, manure, and process wastewater were ponded in the field.



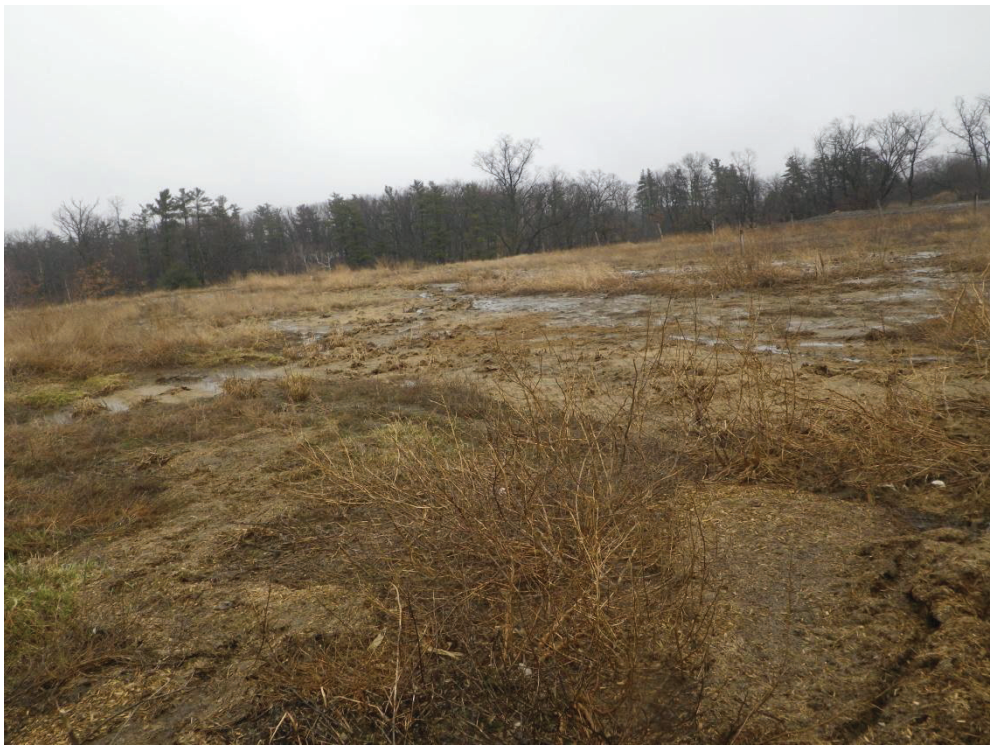
15: IMGP0268.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: East

Description: The open lot drained to the north.



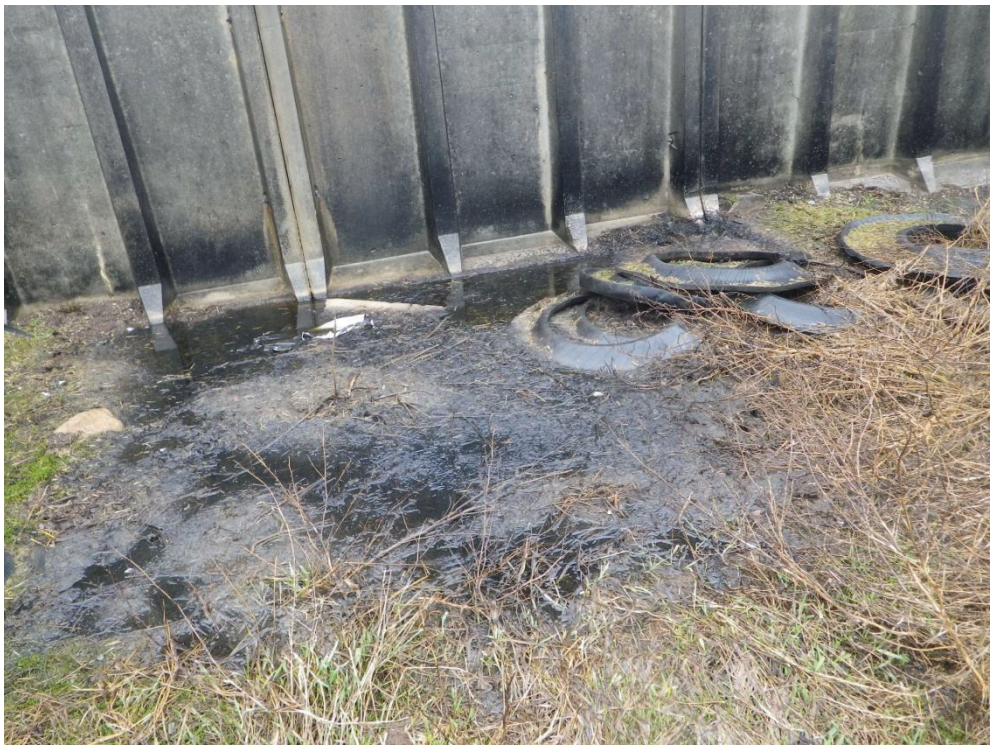
16: IMGP0269.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: Feed, bedding, and manure solids were observed throughout the field north of the Milk Cow Barn. The field sloped to the north.



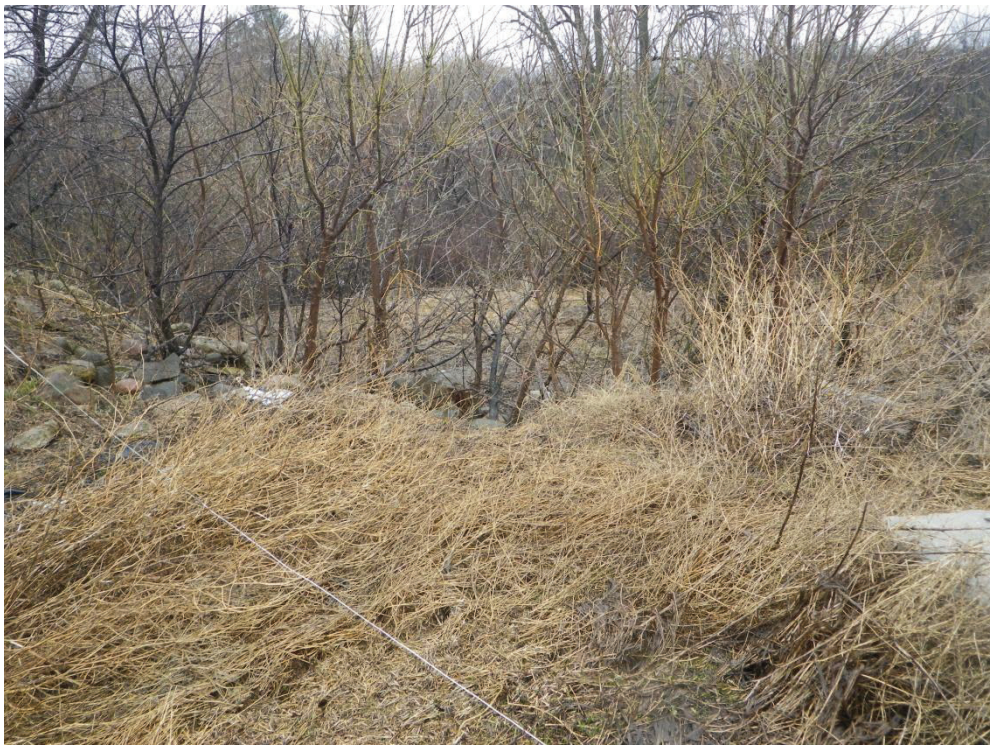
17: IMGP0270.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: Down/South

Description: Leachate was observed at the north end of the Feed Bunker.



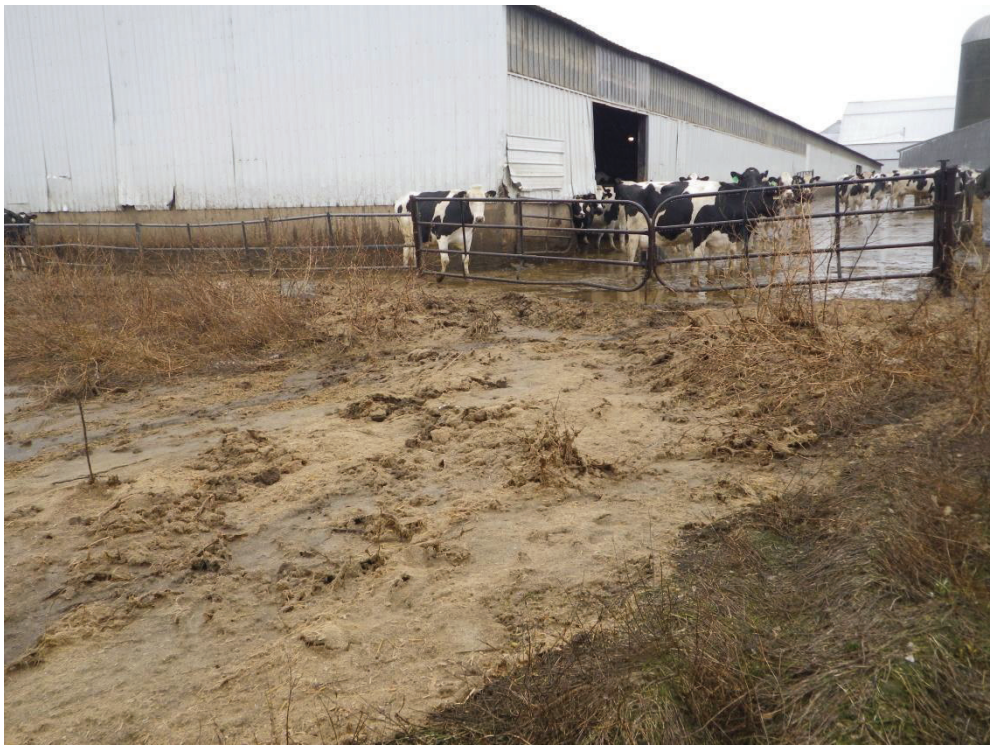
18: IMGP0271.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: West

Description: The leachate from the Feed Bunker looked as if could flow west off the ledge at the north end of the Feed Bunker.



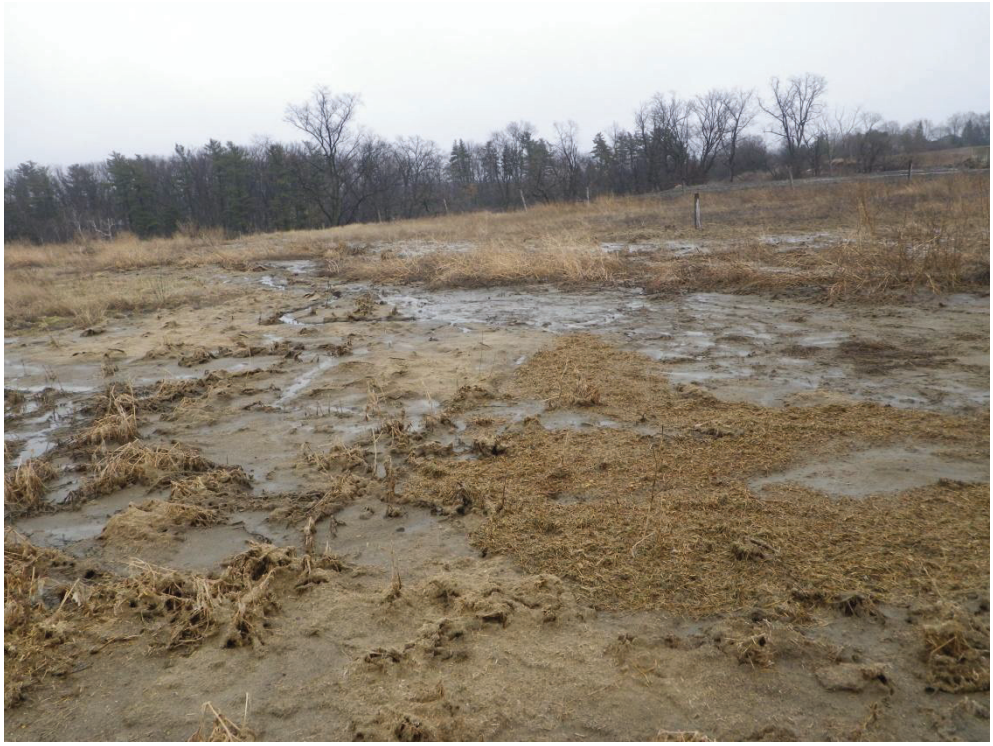
19: IMGP0272.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: South

Description: Feed, bedding, manure, and process waste water flowed to the north. Feed and manure solids were observed throughout the field on the north end of the Milk Cow Barn.



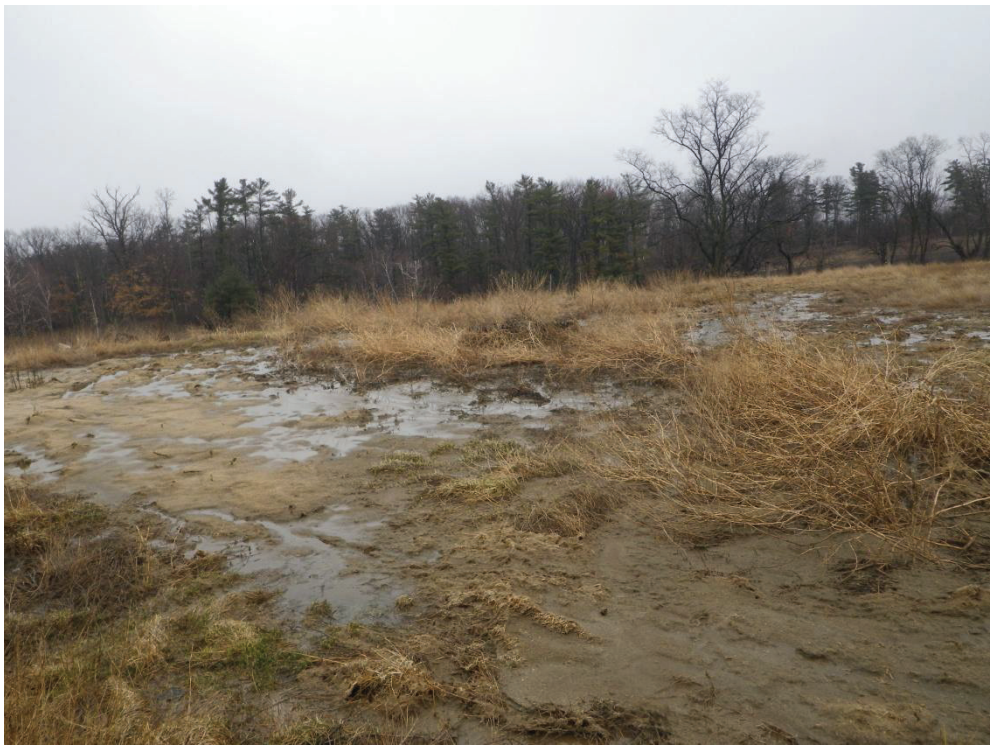
20: IMGP0273.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: Feed, bedding, and manure solids were observed throughout the field north of the Milk Cow Barn. Manure and process wastewater were ponded throughout the field. The area drained to the north.



21: IMGP0274.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: Feed, bedding, and manure solids were observed throughout the field north of the Milk Cow Barn. Manure and process wastewater were ponded throughout the field. The area drained to the north.

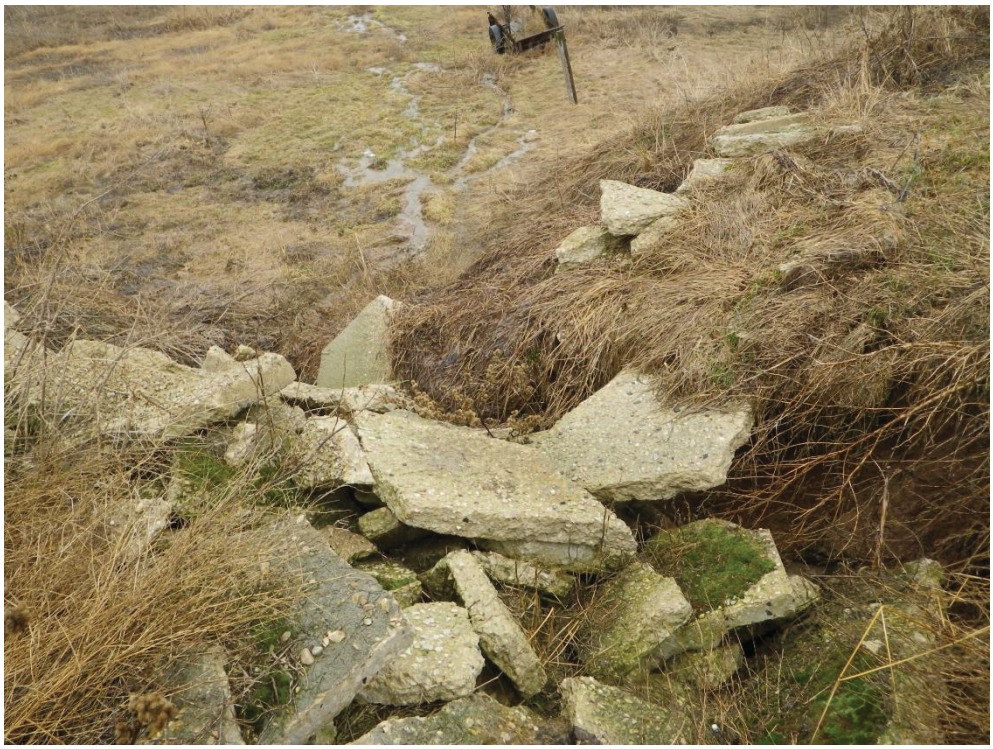
22: IMGP0275.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: Down

Description: Flow from the field concentrated into multiple pathways.



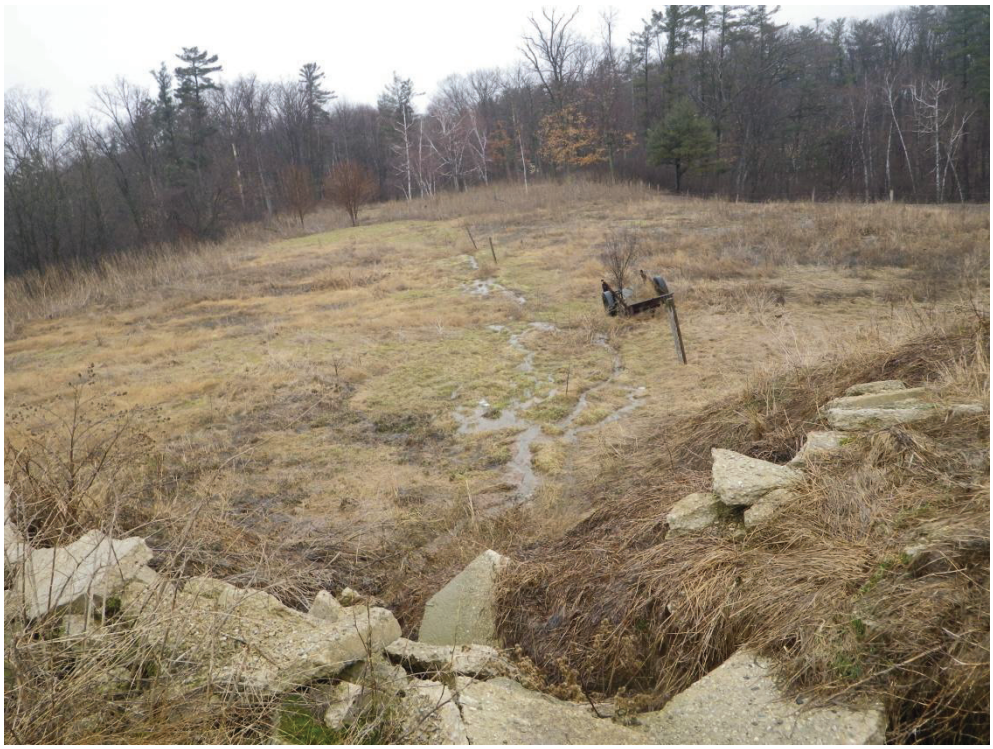
23: IMGP0276.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: Down/North

Description: A pathway flows to the north through the field north of the Milk Cow Barn. Rip rap was placed throughout the pathway along the elevation drop.



24: IMGP0277.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: The pathway continues north through the field north of the Milk Cow Barn and then continues west near the two small trees in the background. The pathway flows to the unnamed tributary.

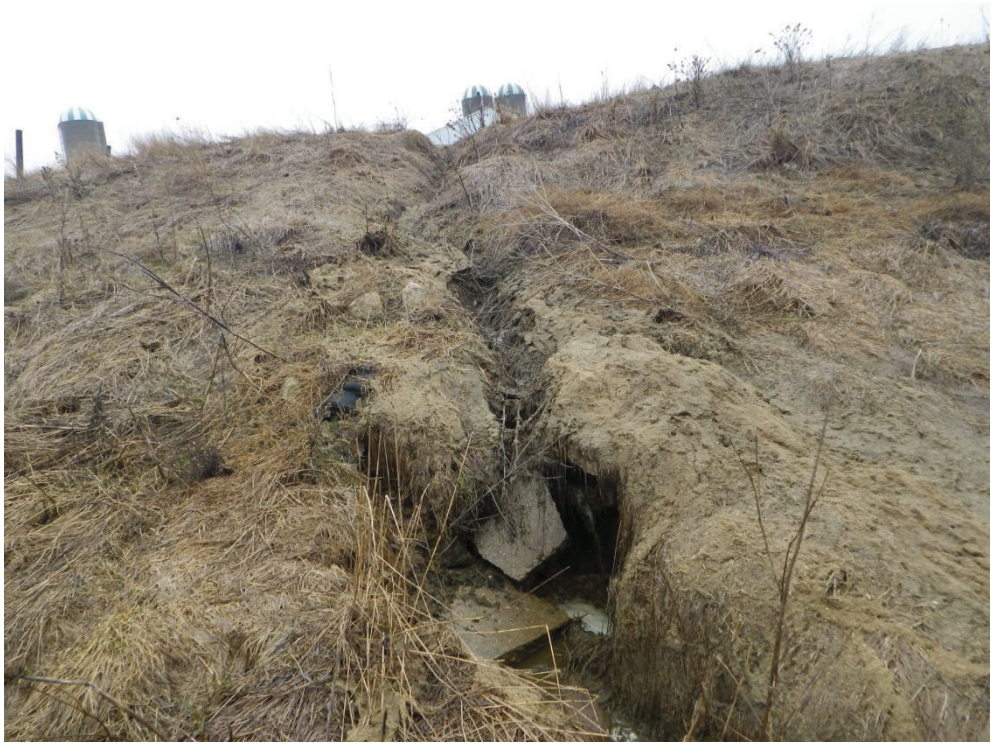
25: IMGP0278.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: Down

Description: Flow in the pathway in the field north of the Milk Cow Barn.



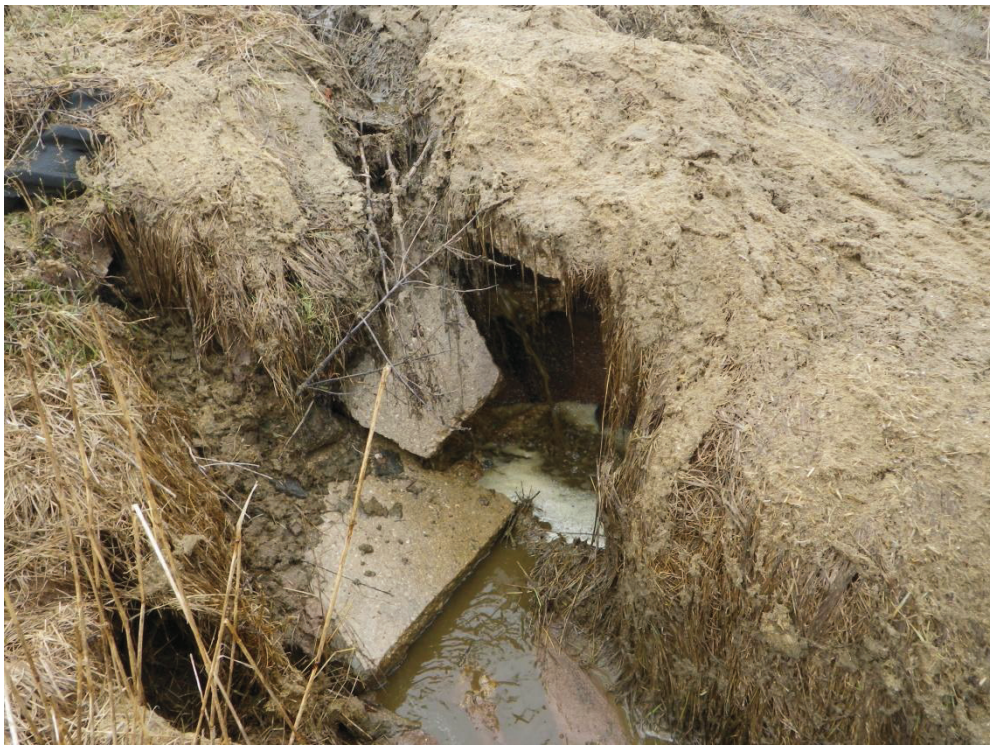
26: IMGP0279.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: South

Description: Another flow pathway/gulley was observed on the east end of the field north of the Milk Cow Barn. Manure, feed, and bedding material were observed throughout the pathway. The flow in the pathway looked like the liquid that would be in a manure storage pond or slurry storage.



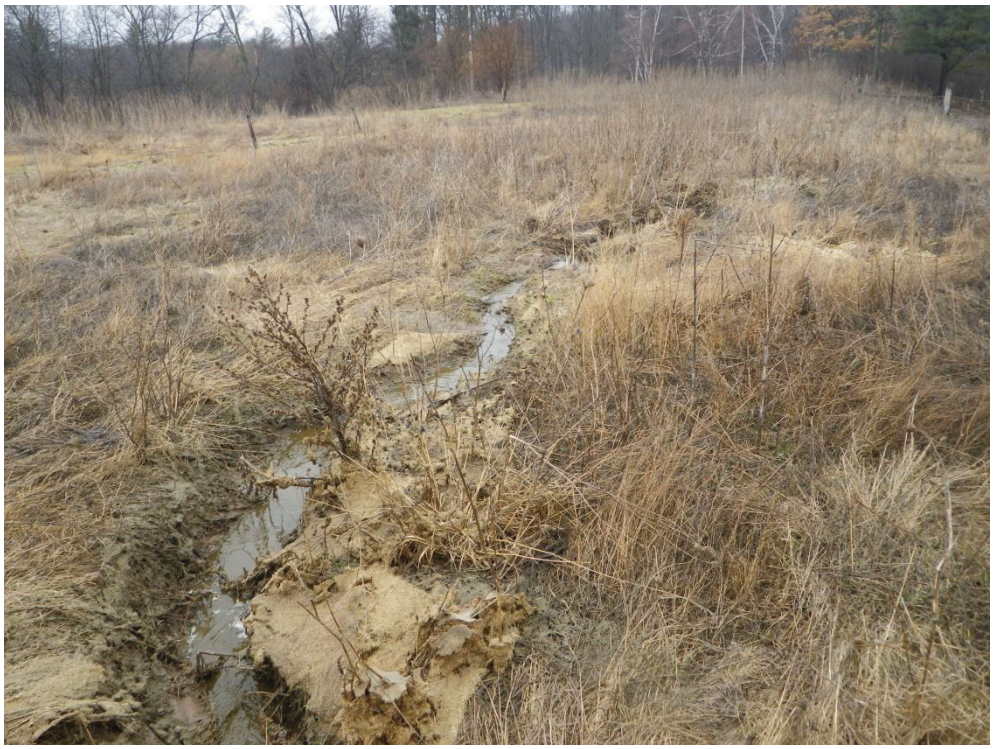
27: IMGP0280.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: South

Description: Another flow pathway/gulley was observed on the east end of the field north of the Milk Cow Barn. Manure, feed, and bedding material were observed throughout the pathway. The flow in the pathway looked like the liquid that would be in a manure storage pond or slurry storage.



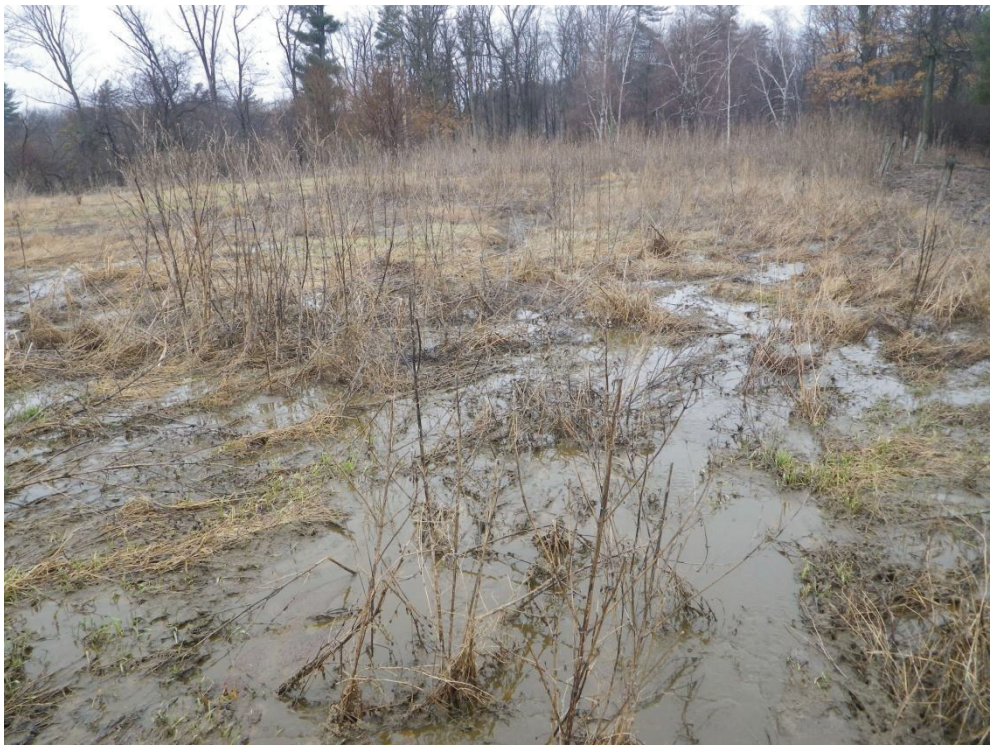
28: IMGP0281.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: Flow continued north from the pathway/gulley on the east end of the field north of the Milk Cow Barn.



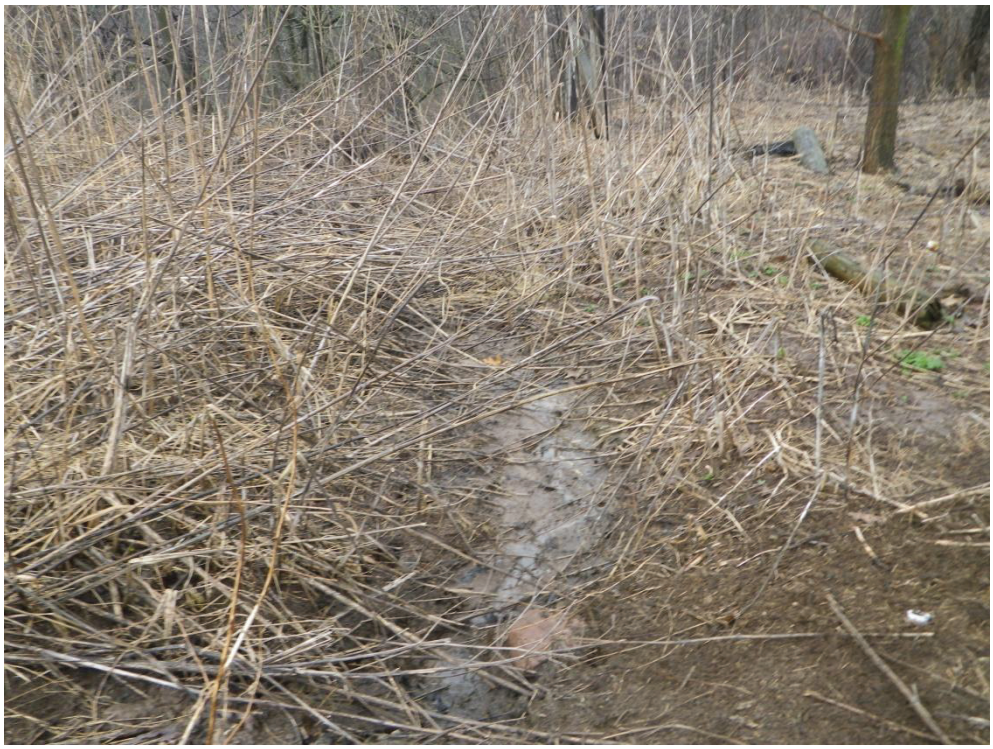
29: IMGP0282.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: The flow from the east pathway ponded at the end of the field. Portions of this area drained to the west and connected with the other pathway. Other portions of the flow continued north in a pathway that eventually dissipated. On the east side of the ponded area there was an eroded pathway that continued east, however, flow was not observed in this pathway during the inspection.



30: IMGP0283.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: Down/West

Description: The flow in the pathway continued west and dropped down the ledge into the unnamed stream bordering the west end of the facility.

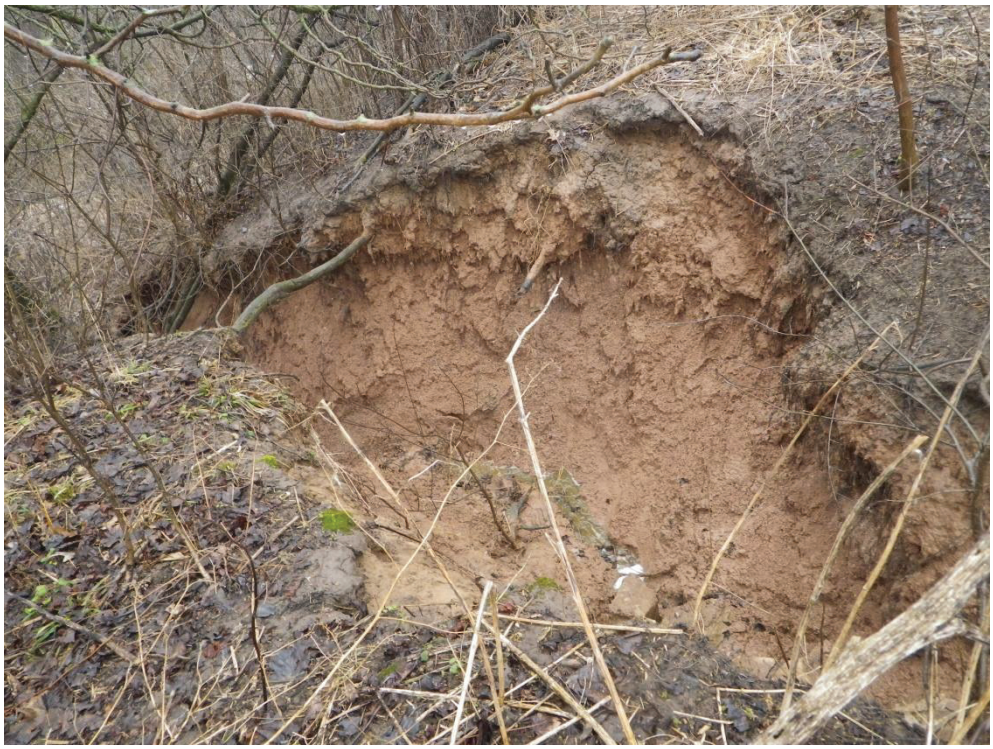
31: IMGP0284.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: Down

Description: The flow in the pathway continued west and dropped down the ledge into the unnamed stream bordering the west end of the facility.



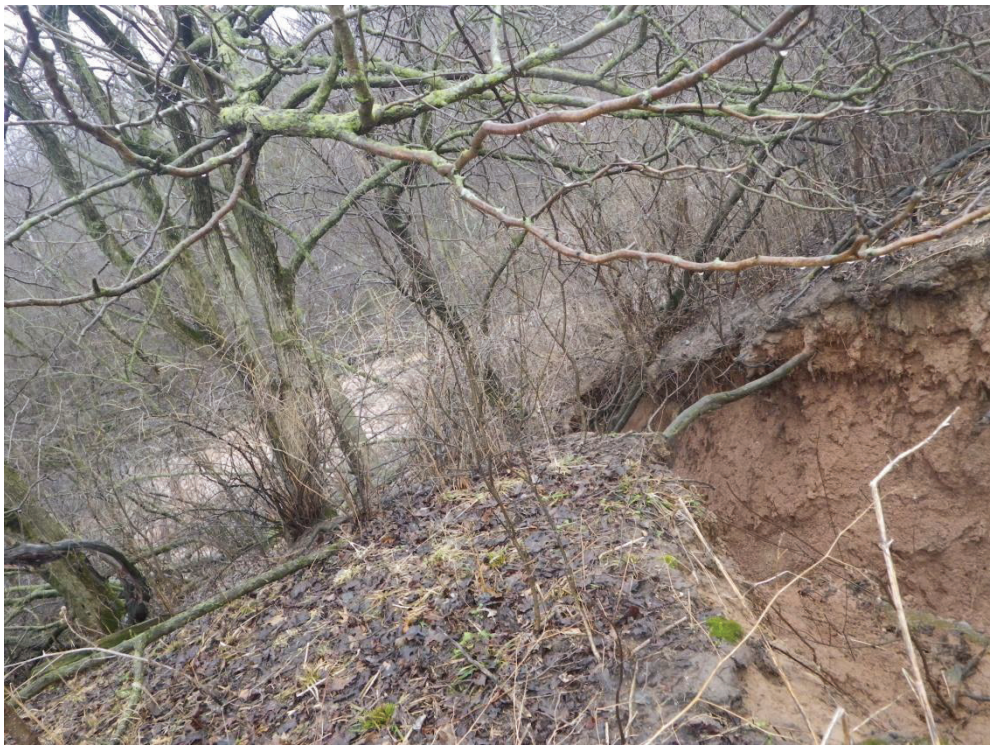
32: IMGP0285.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: Down/North

Description: A large eroded area was observed were the flow pathway drops down the ledge and continues to the unnamed stream.



33: IMGP0286.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: Down/west

Description: A large eroded area was observed were the flow pathway drops down the ledge and continues to the unnamed stream. The steam can be observed down the ledge.

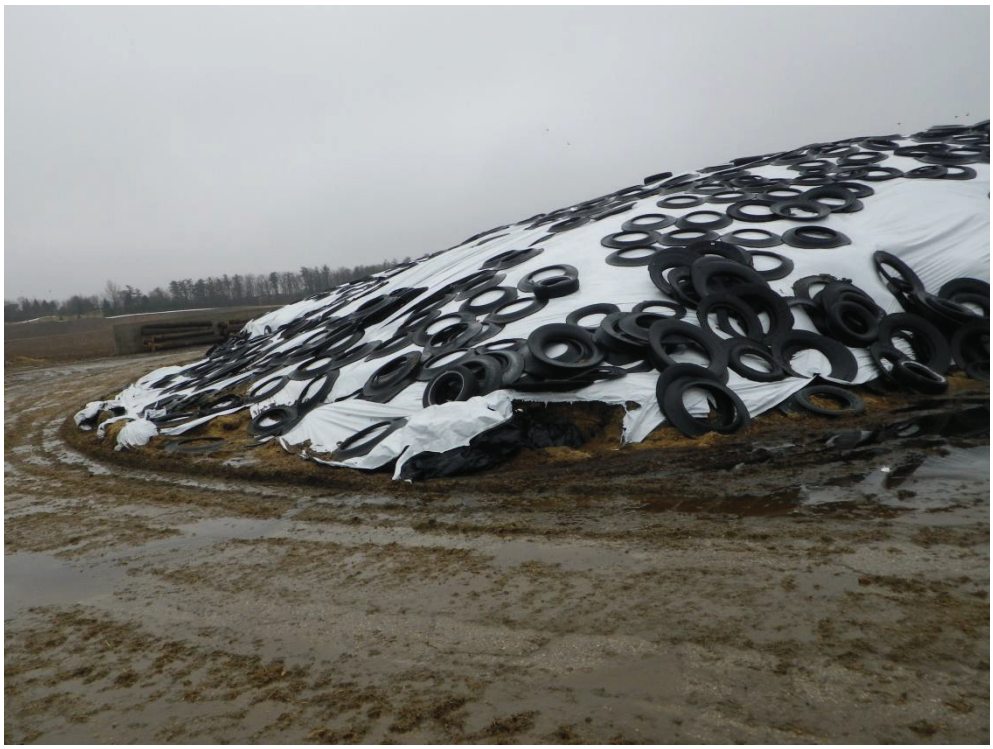
34: IMGP0287.JPG

Location: [redacted] Farms-Home Site

Photographer: Mike Lukowich

Camera Direction: Down/West

Description: The unnamed tributary.



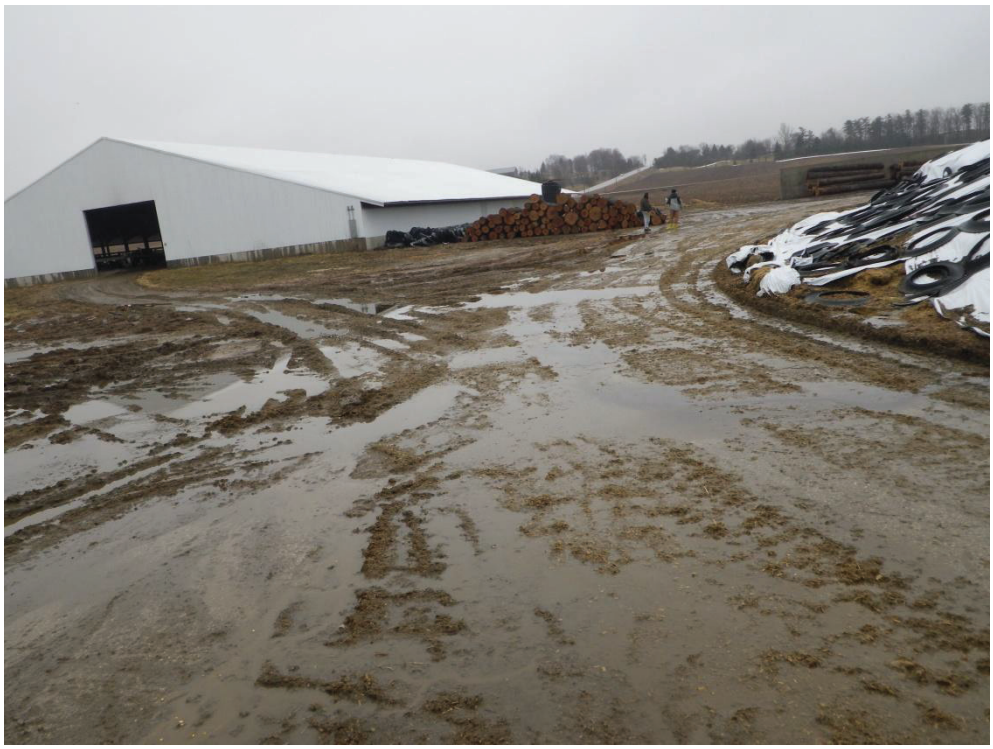
35: IMGP0288.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: South

Description: Process wastewater and feed solids were observed around the feed bunkers. The process wastewater was ponded and flowed east into a grassed area.



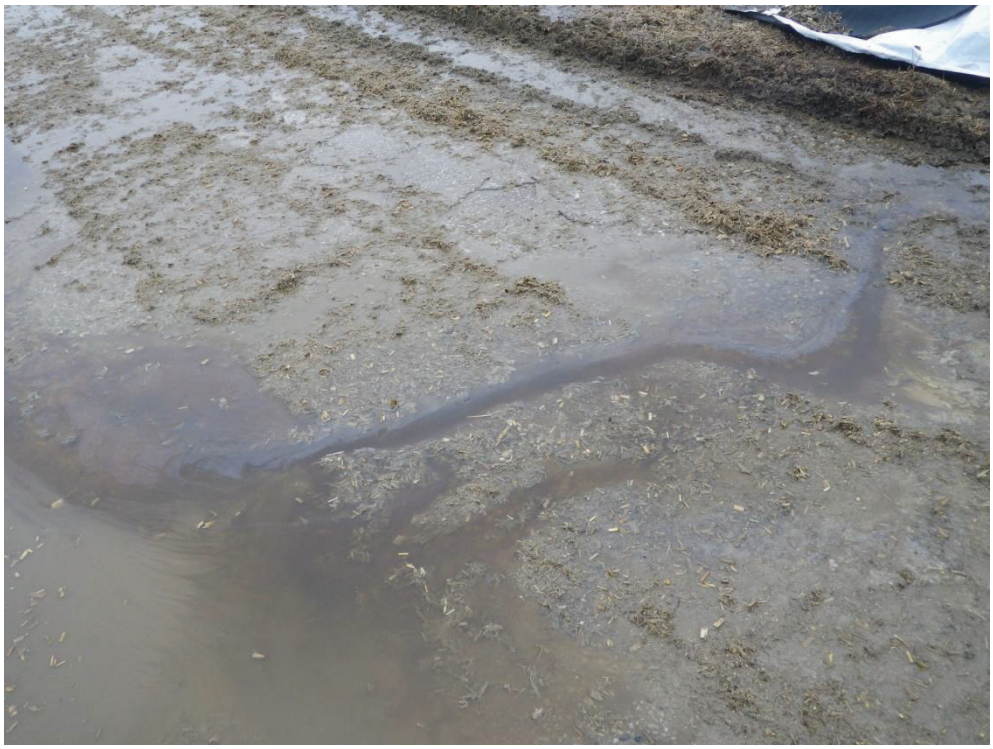
36: IMGP0289.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: South

Description: Process wastewater and feed solids were observed around the feed bunkers. The process wastewater was ponded and flowed east into a grassed area.



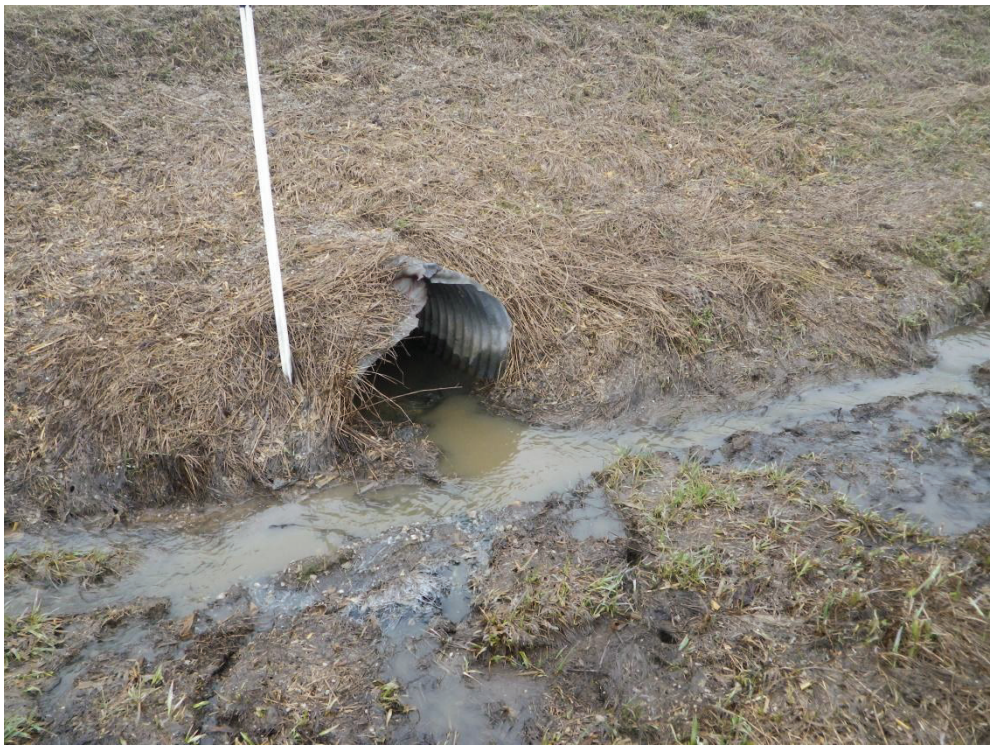
37: IMGP0290.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: Down

Description: Process wastewater and feed solids flowing out the east end of the feed bunkers.



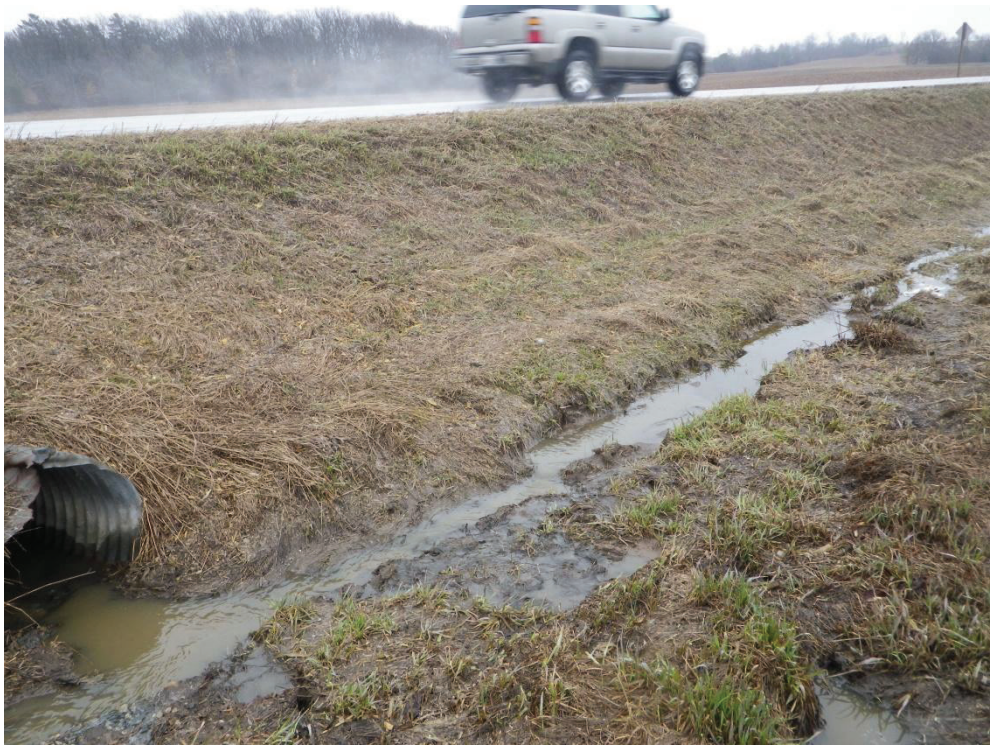
38: IMGP0291.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: Down

Description: The process wastewater continued through the grassed area and outlet into the ditch. The culvert collected the flow which continued east under [redacted] and east along the [redacted] then north and continued northeast before connecting with an unnamed tributary.



39: IMGP0292.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: Down/South

Description: Flow in the ditch.

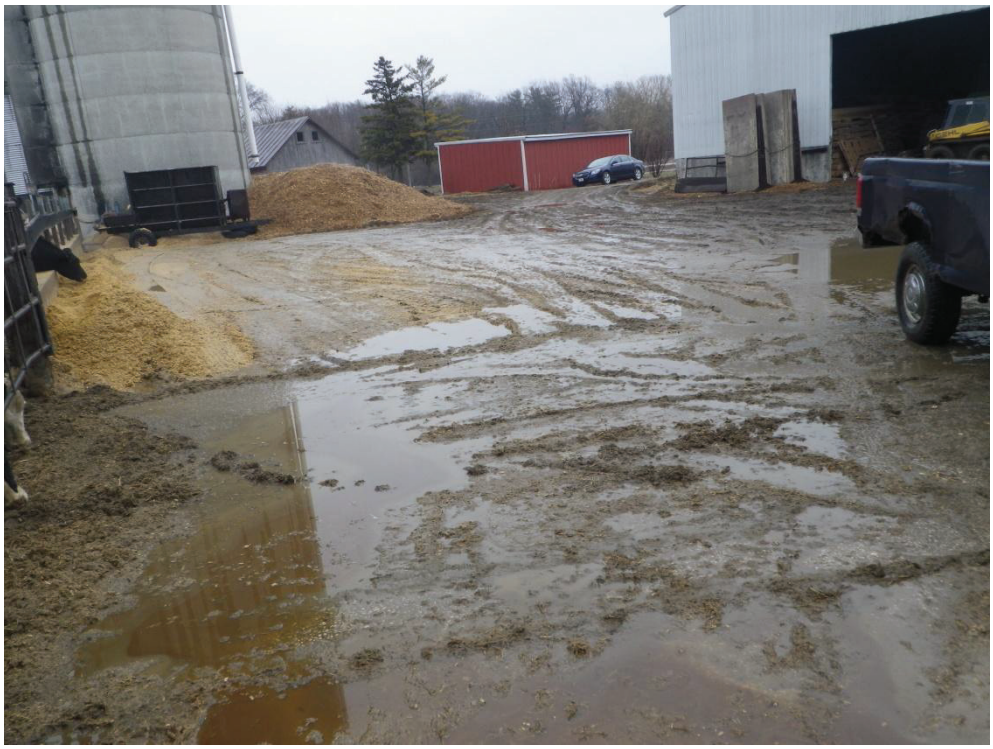
40: IMGP0293.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: North

Description: Portions of the open feedlot drained to the east through the grassed area and to the ditch.



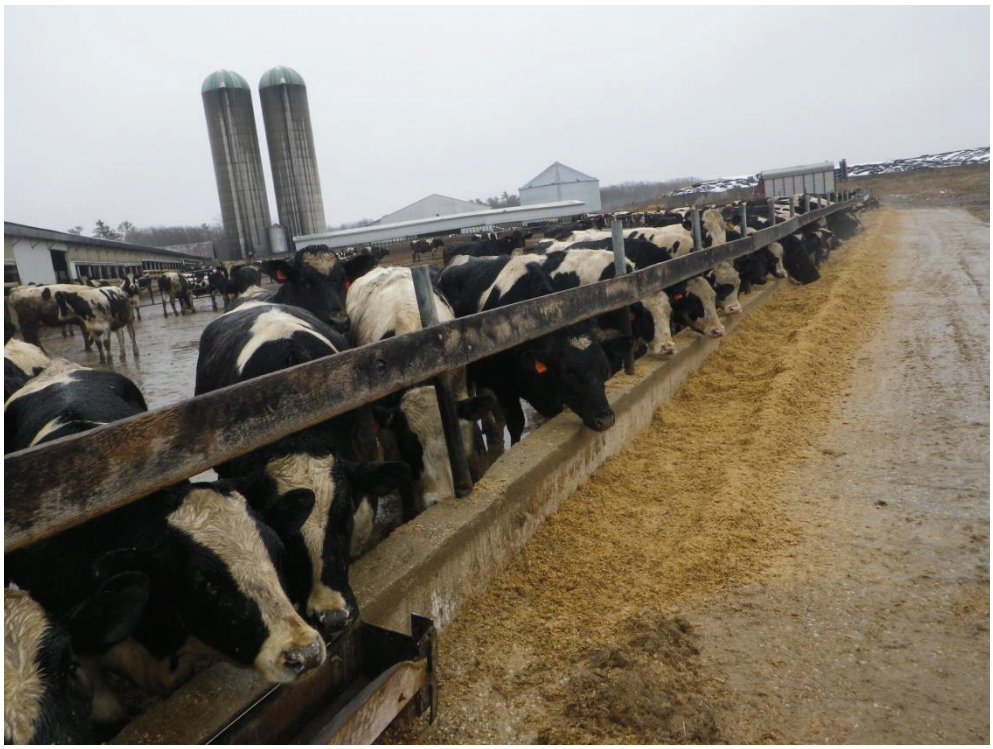
41: IMGP0294.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: North

Description: Feed, manure and process wastewater flowed southeast to the grassed area near the southeast corner of the open feedlot.



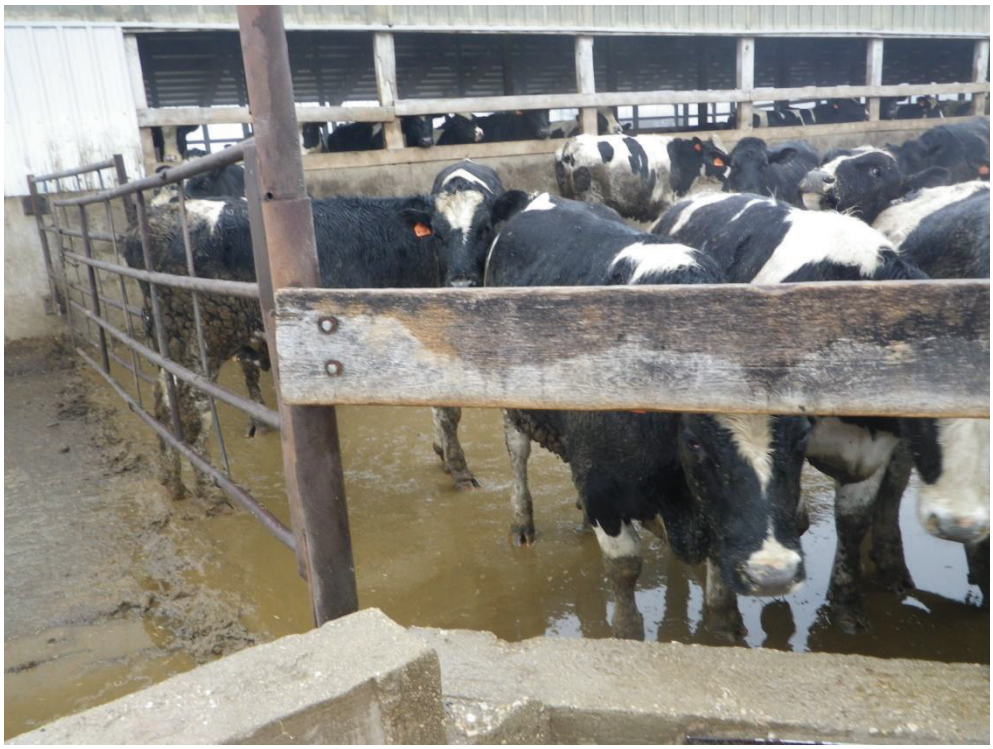
42: IMGP0295.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: Southeast

Description: Feed and process wastewater had no containment along the south end of the open feedlot.



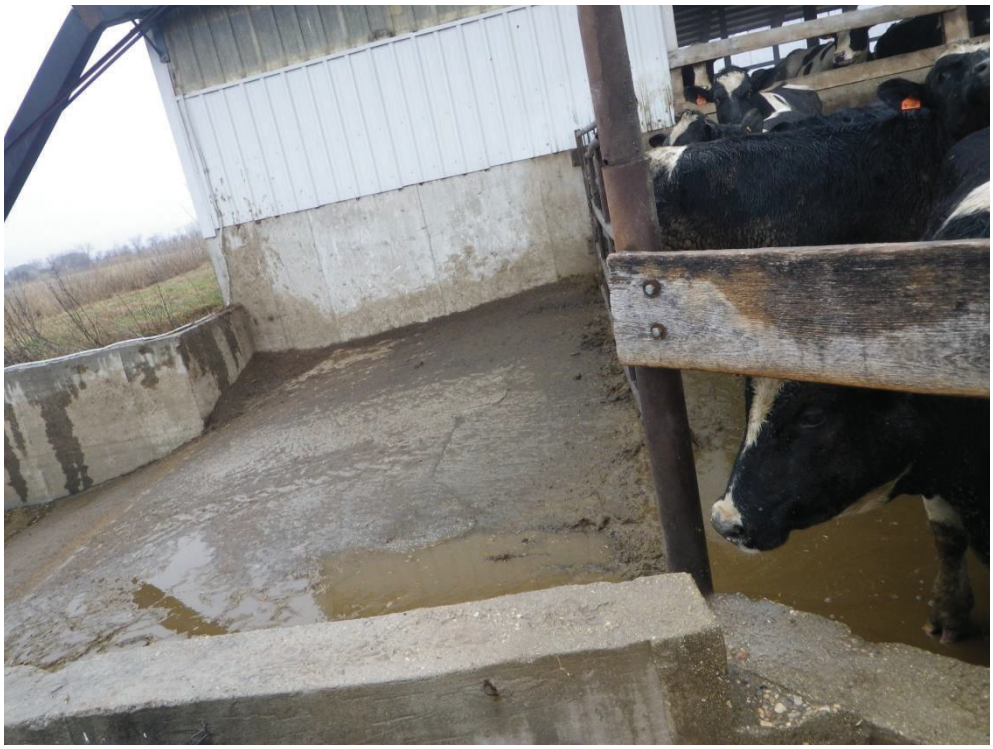
43: IMGP0296.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: North

Description: Portions of the open feedlot flowed to the west.



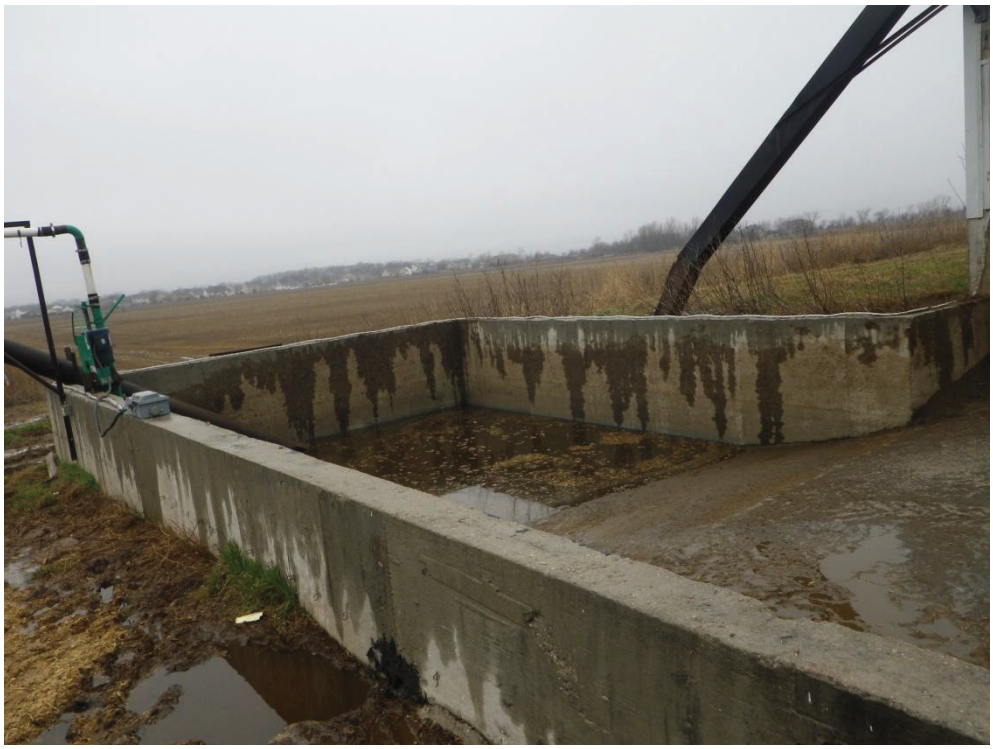
44: IMGP0297.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: North

Description: Portions of the open feedlot flowed to the west.



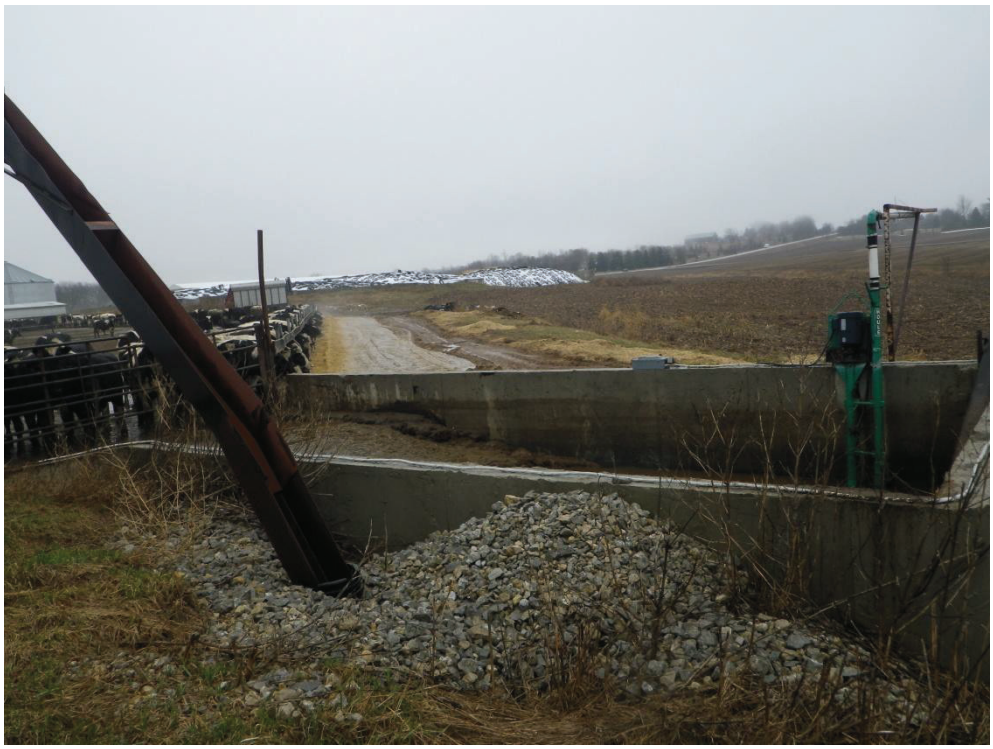
45: IMGP0298.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: Northwest

Description: Portions of the open feedlot flowed to the west. The manure and process wastewater is contained in a concrete pit which is pumped out when needed and transferd to the concrete manure pits on the Home site or land applied.



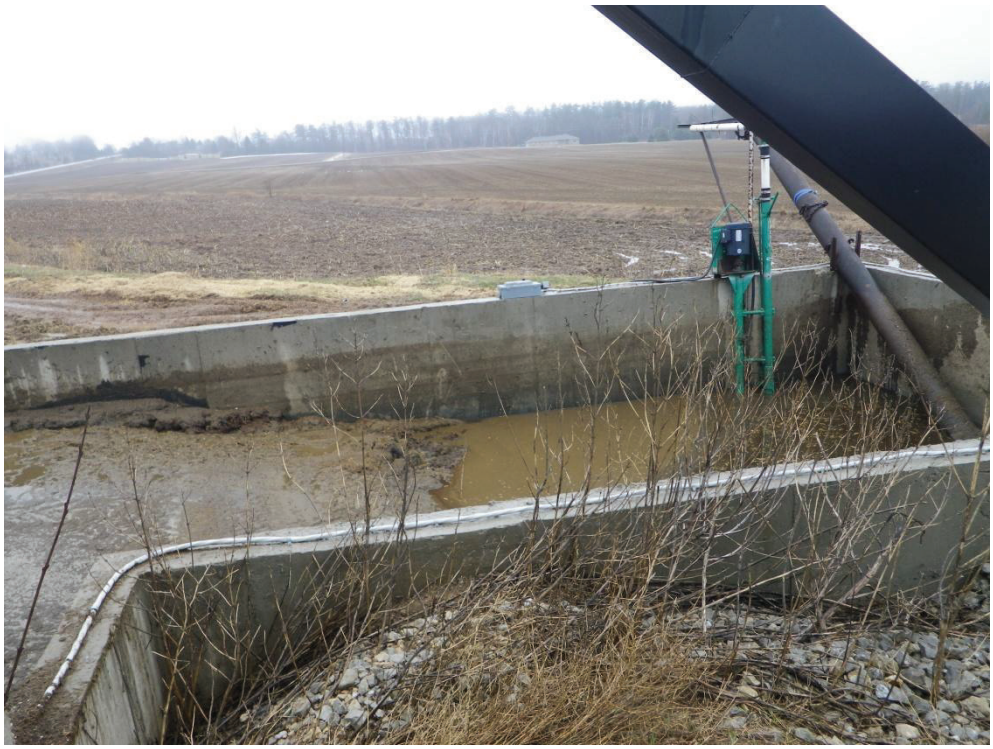
46: IMGP0299.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: Southeast

Description: Concrete pit and feed pathway.



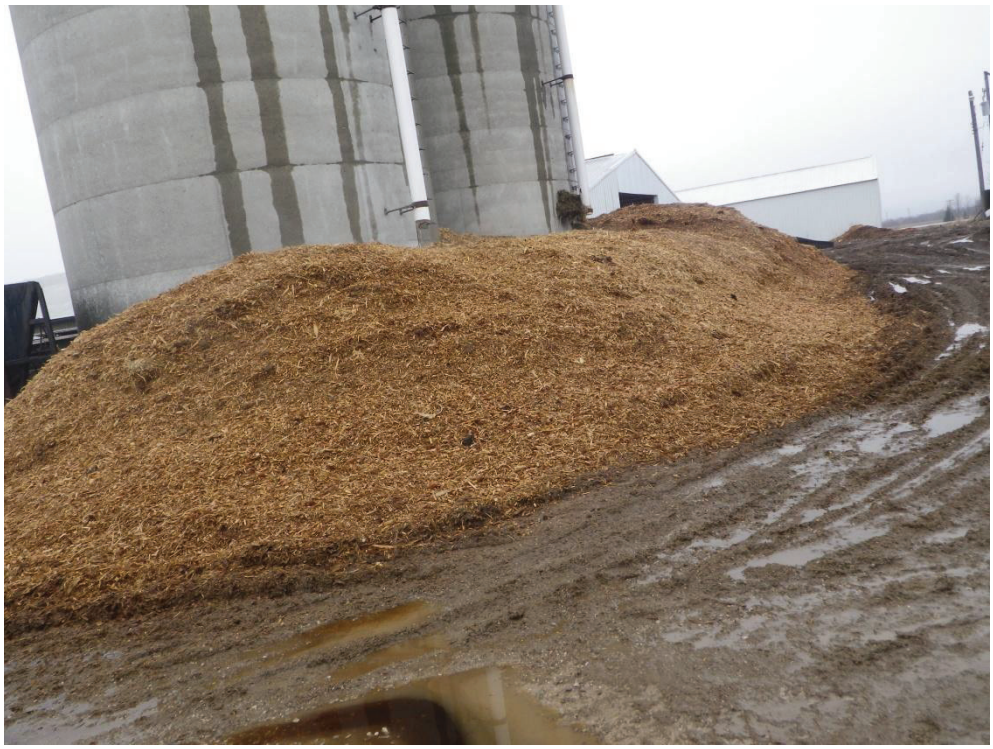
47: IMGP0300.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: North/Down

Description: Concrete pit



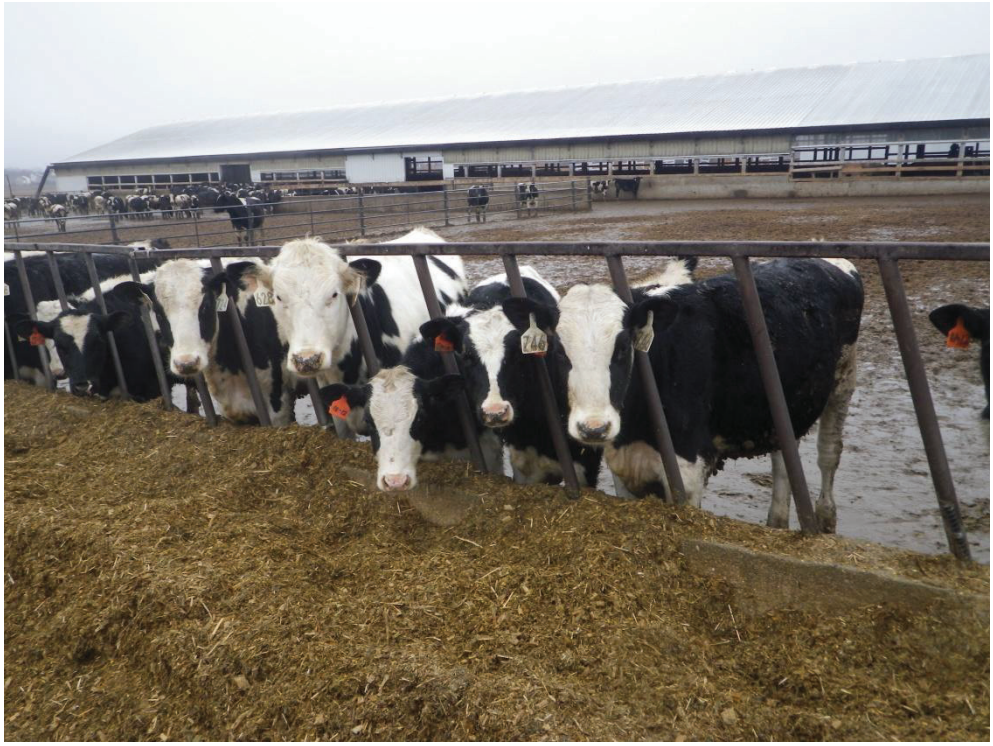
48: IMGP0301.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: North

Description: Cornstalk and woodchip bedding material east of the open feedlot.



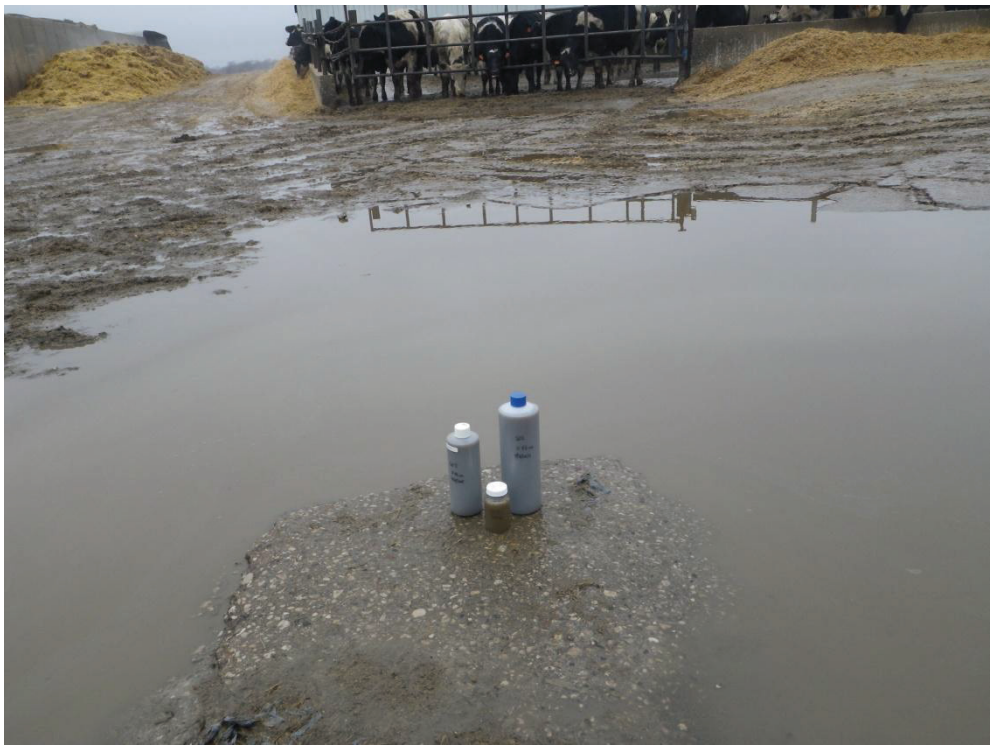
49: IMGP0302.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: Northwest

Description: Feed in pathways adjacent to the south end of the open feedlot.



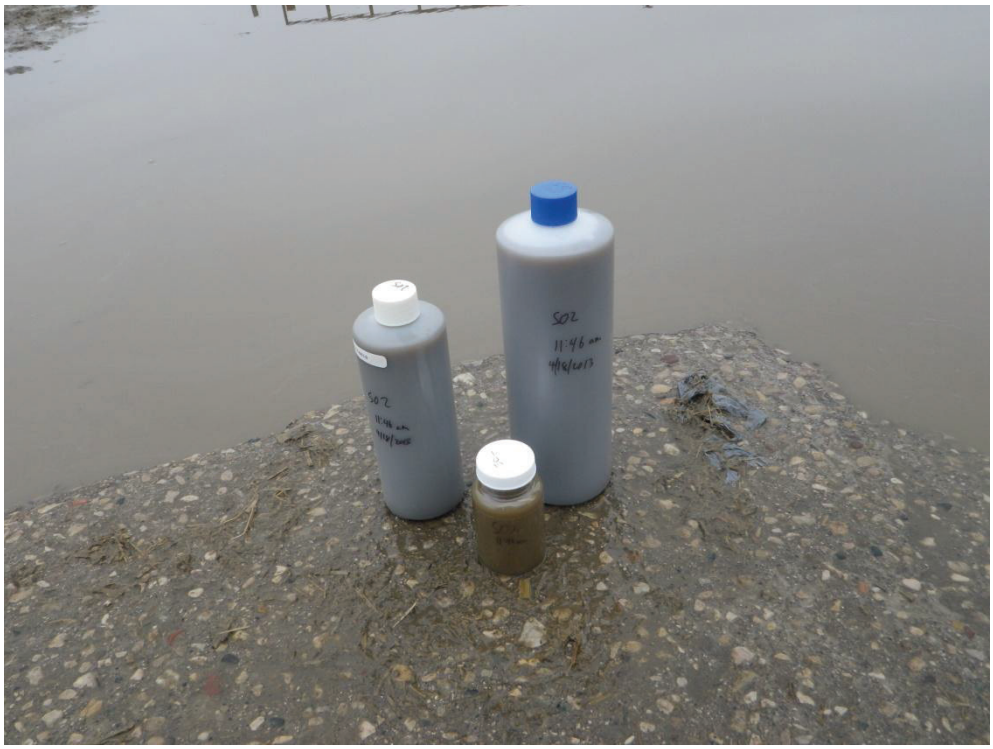
50: IMGP0303.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: West

Description: Sample S02, collected in puddle/pathway adjacent to the open feedlot.



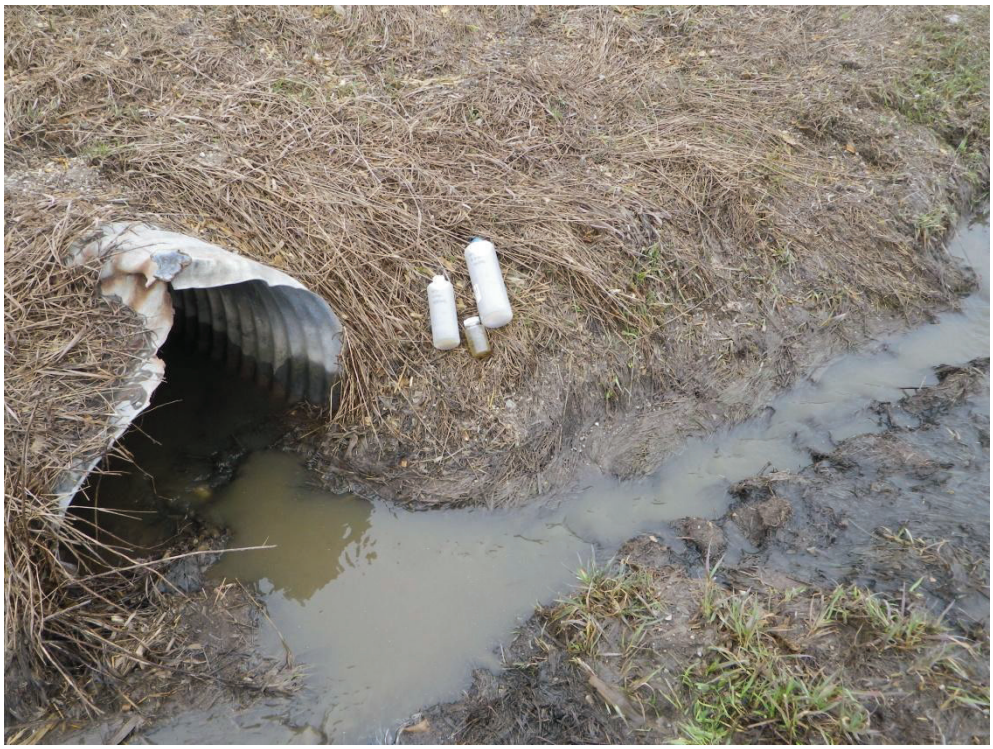
51: IMGP0304.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: West

Description: Sample S02, collected in puddle/pathway adjacent to the open feedlot.



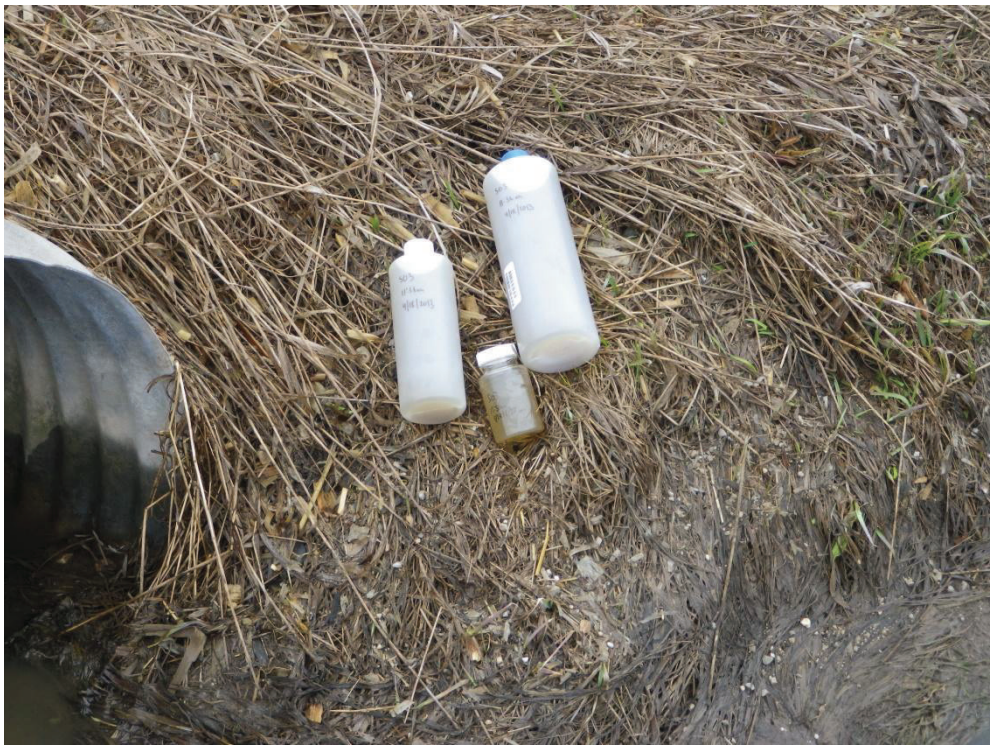
52: IMGP0305.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: Down/South

Description: Sample S03, in ditch before flow enters the culvert under [redacted]



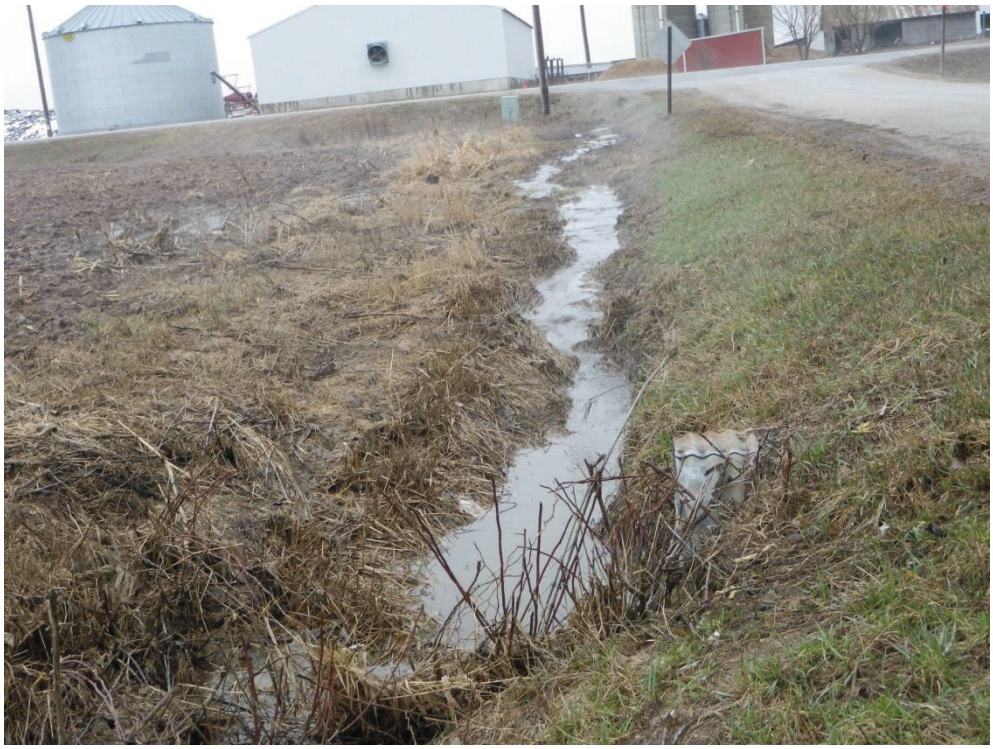
53: IMGP0306.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: Down/South

Description: Sample S03, in ditch before flow enters the culvert under [redacted]



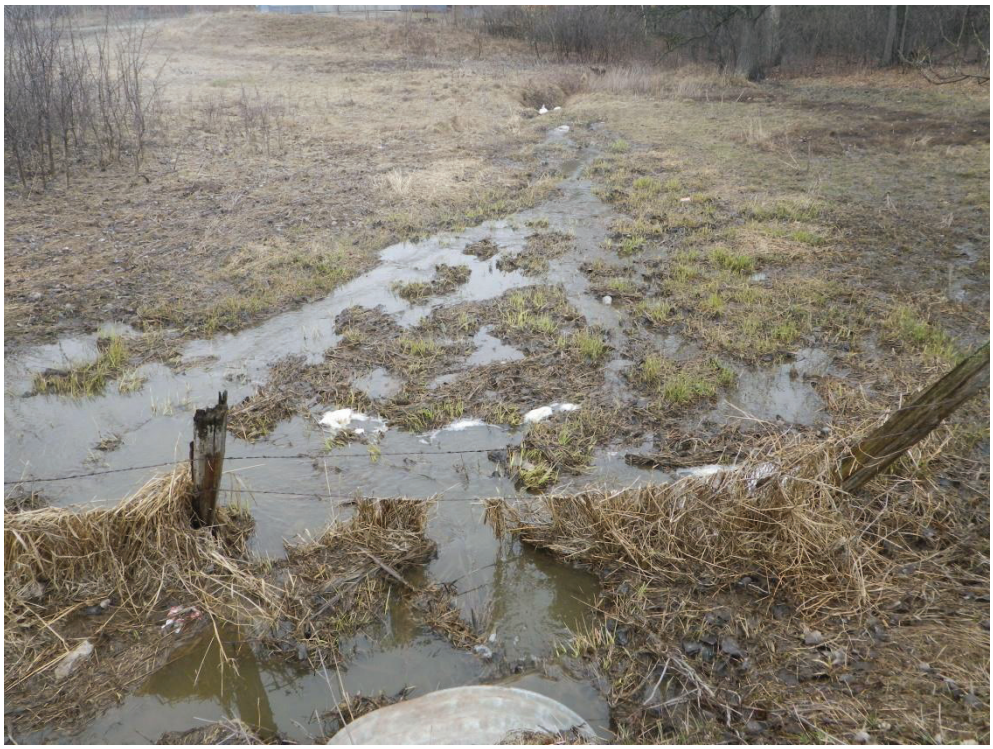
54: IMGP0307.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: West

Description: Flow from portions of the open lots and process wastewater from the feed flowed through the culvert and under the [redacted] to the east. The flow then turns north through another culvert under [redacted]



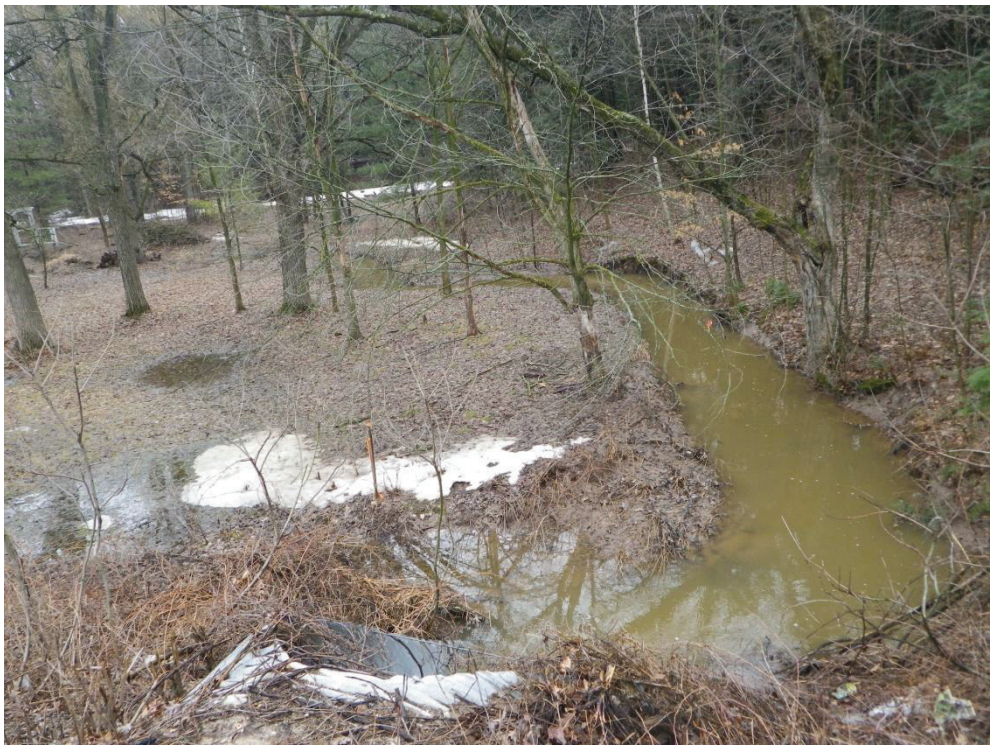
55: IMGP0308.JPG

Location: [redacted] Farms- Satellite Site

Photographer: Mike Lukowich

Camera Direction: North

Description: The flow continues north under [redacted] and through the field to the northeast and connects with an unnamed tributary.



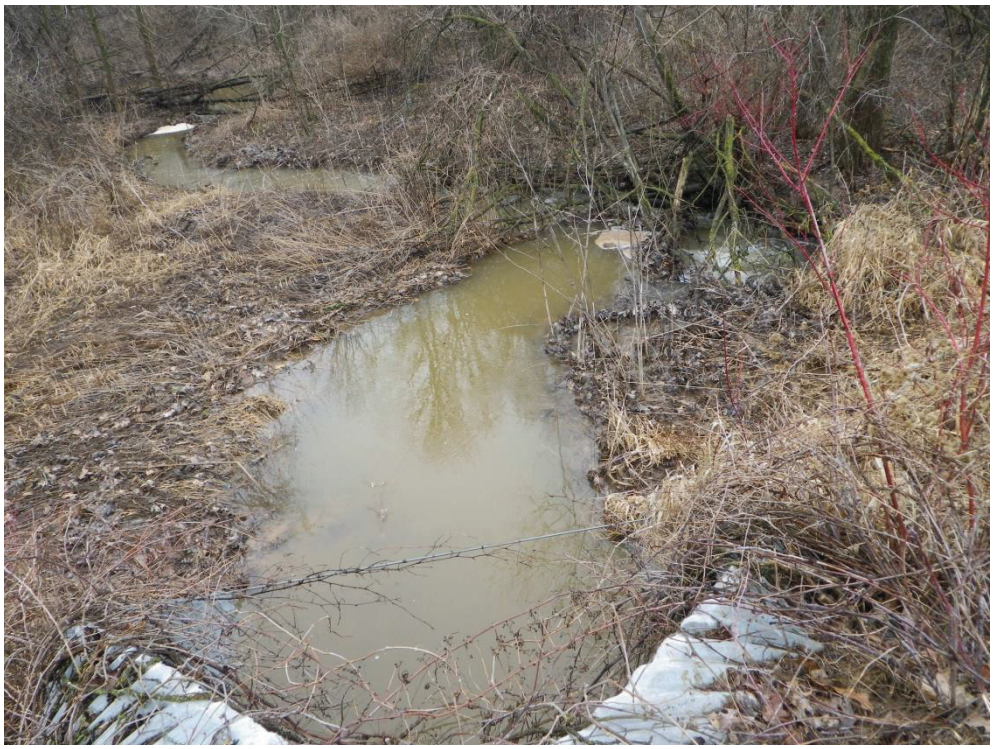
56: IMGP0309.JPG

Location: [redacted] Farms

Photographer: Mike Lukowich

Camera Direction: South

Description: Unnamed tributary flows North to Bower Creek. The culvert was approximately 8-10 ft in diameter at the crossing under [redacted]



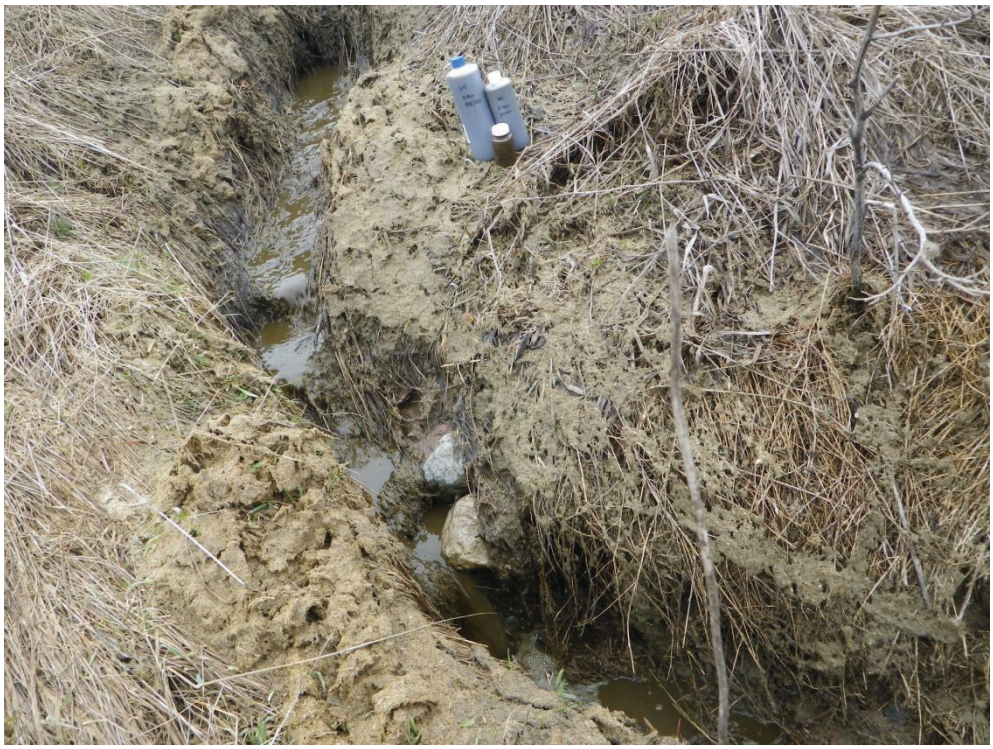
57: IMGP0310.JPG

Location: [redacted] Farms

Photographer: Mike Lukowich

Camera Direction: North

Description: Unnamed tributary flows north to Bower Creek. The culvert was approximately 8-10 ft in diameter at the crossing under [redacted]



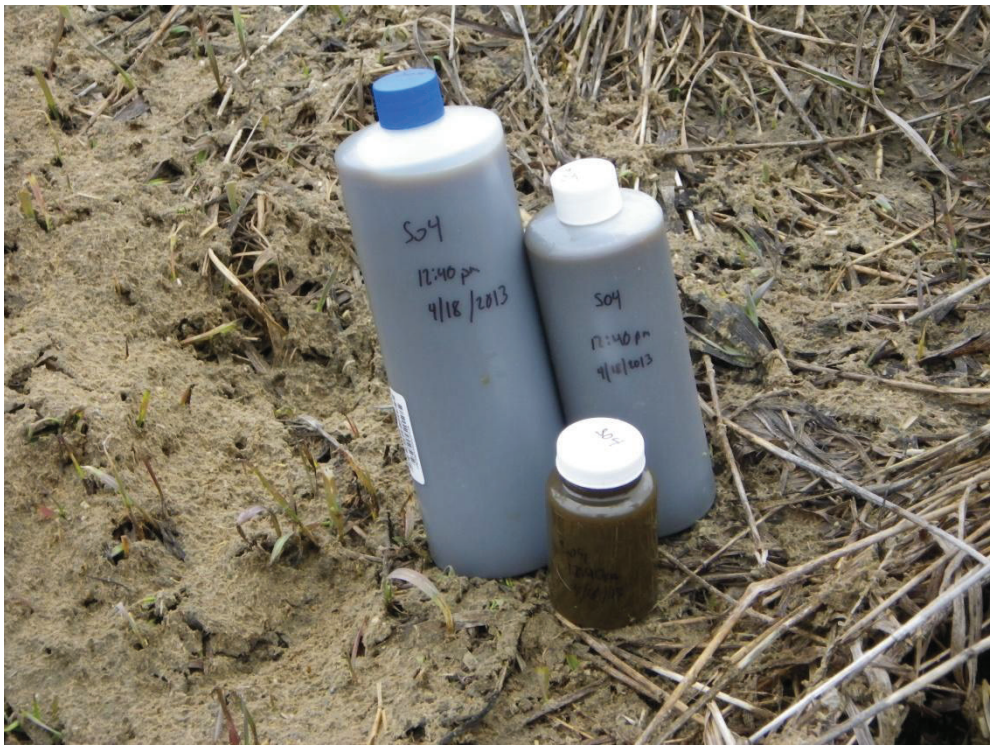
58: IMGP0311.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: Down

Description: Sample S04, in east pathway near the elevation change in the field north of the Milk Cow Barn.



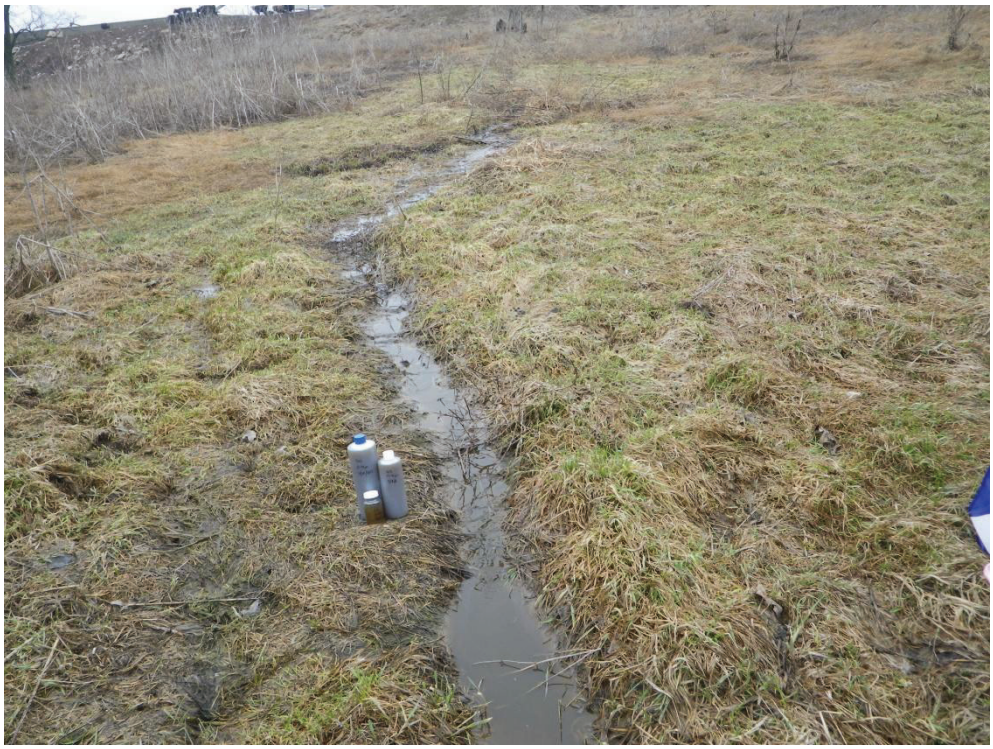
59: IMGP0312.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: Down

Description: Sample S04, in east pathway near the elevation change in the field north of the Milk Cow Barn.



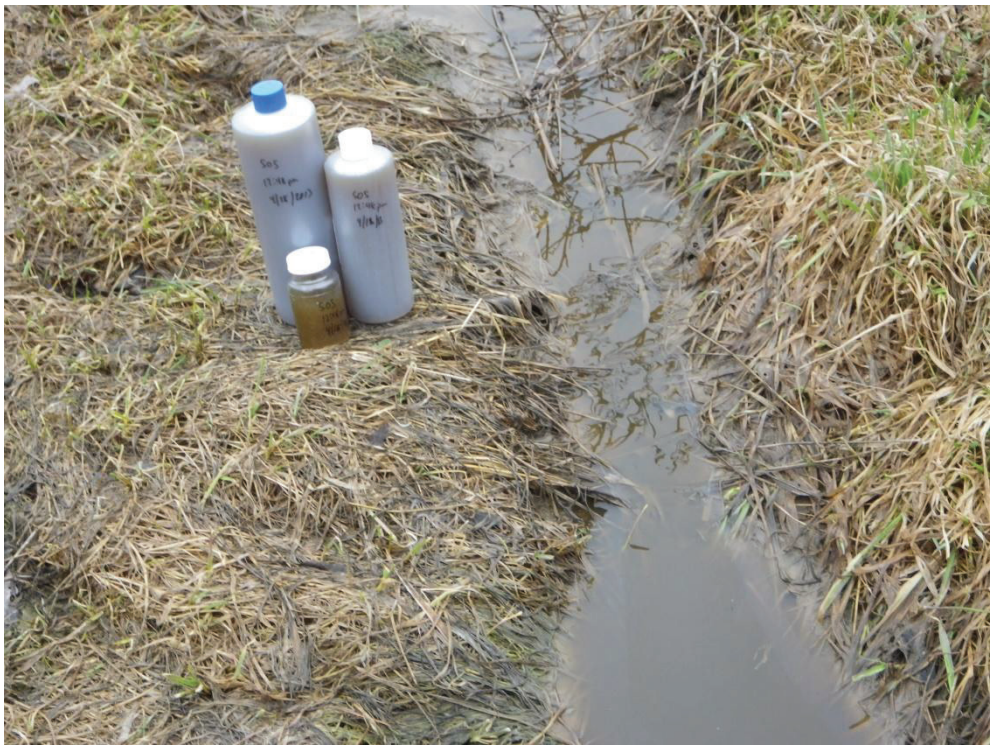
60: IMGP0313.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: Down/South

Description: Sample S05, in flow pathway through field north of the Milk Cow Barn.



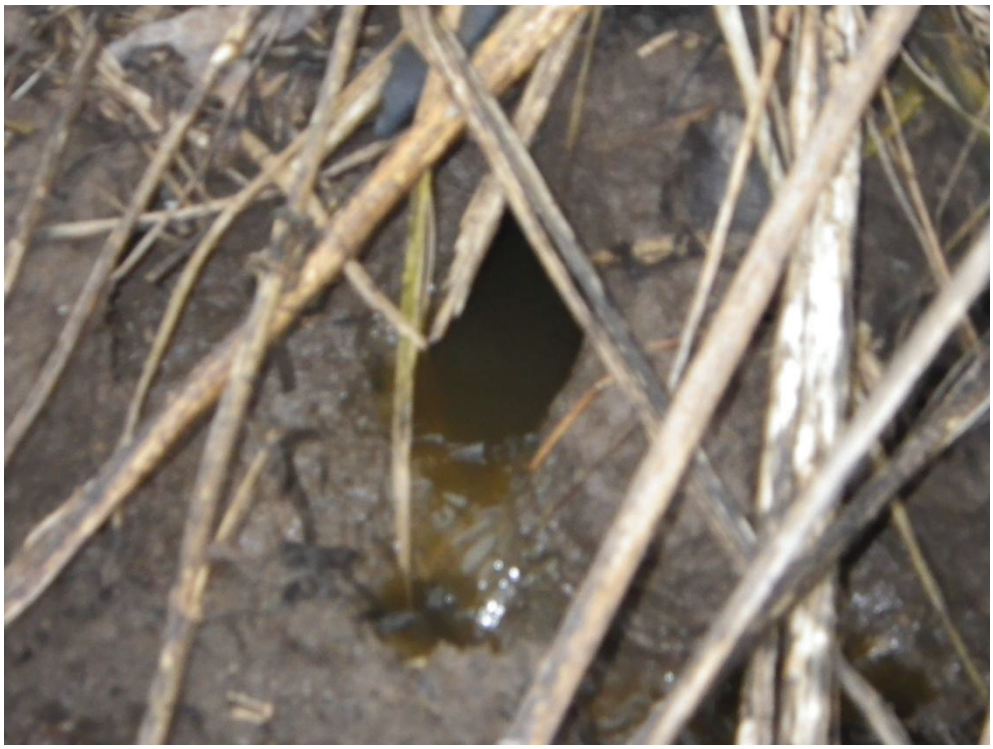
61: IMGP0314.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: Down

Description: Sample S05, in flow pathway through field north of the Milk Cow Barn.



62: IMGP0315.JPG

Location: [redacted] Farms- Home Site

Photographer: Don Schwer

Camera Direction: Down

Description: Portion of pathway on the north end of the field north of the Milk Cow Barn leading to unnamed tributary.

63: IMGP0316.JPG

Location: [redacted] Farms- Home Site

Photographer: Don Schwer

Camera Direction: Down

Description: Portion of pathway on the north end of the field north of the Milk Cow Barn leading to unnamed tributary.

64: IMGP0317.JPG

Location: [redacted] Farms- Home Site

Photographer: Don Schwer

Camera Direction: Down

Description: Portion of pathway on the north end of the field north of the Milk Cow Barn leading to unnamed tributary.

65: IMGP0318.JPG

Location: [redacted] Farms- Home Site

Photographer: Don Schwer

Camera Direction: Down

Description: Portion of pathway on the north end of the field north of the Milk Cow Barn leading to unnamed tributary.

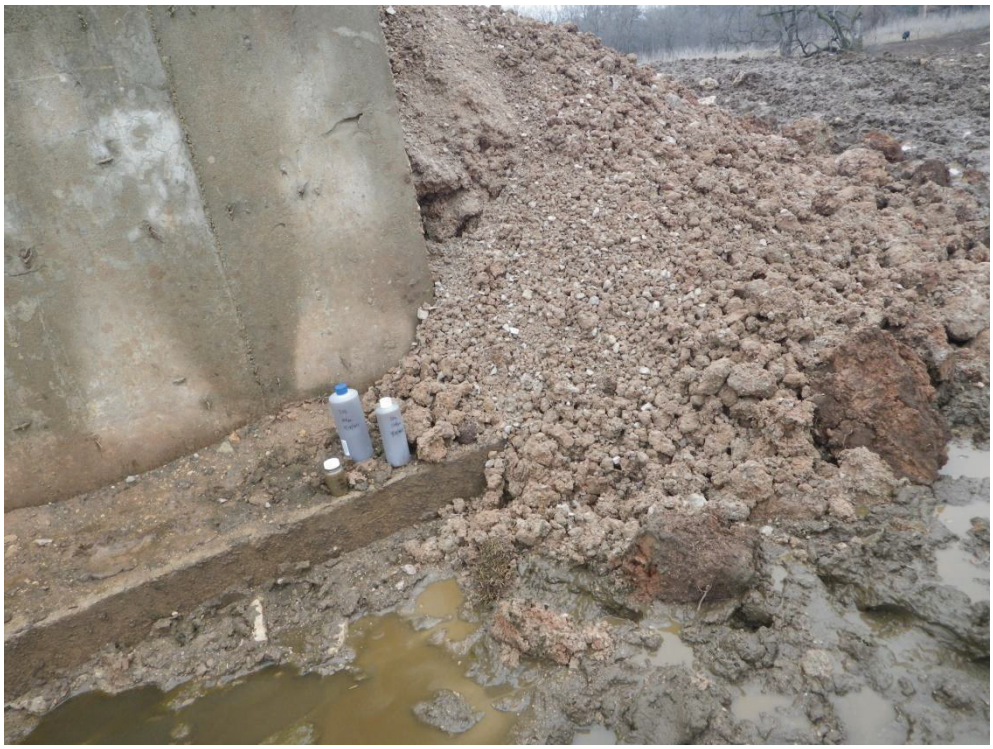
66: IMGP0319.JPG

Location: [redacted] Farms- Home Site

Photographer: Don Schwer

Camera Direction: West

Description: Portion of pathway on the north end of the field north of the Milk Cow Barn leading to unnamed tributary.



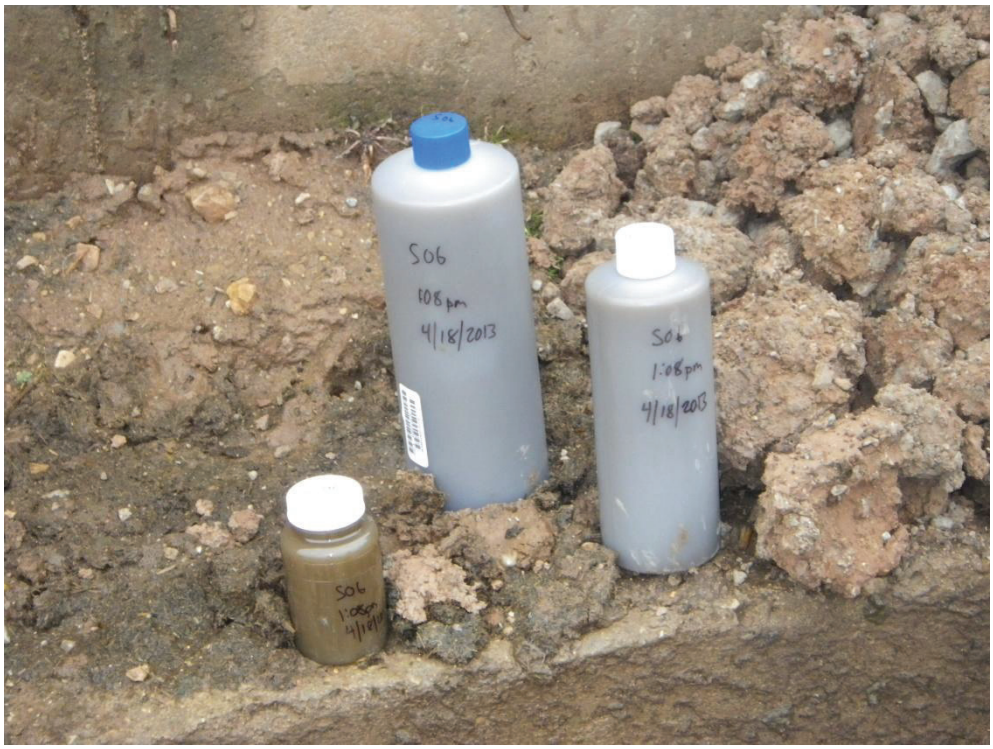
67: IMGP0320.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: Down

Description: Sample S06, wastewater from hole in the concrete manure pit. During the inspection the facility owner placed a pile of fill over the hole in the concrete pit.



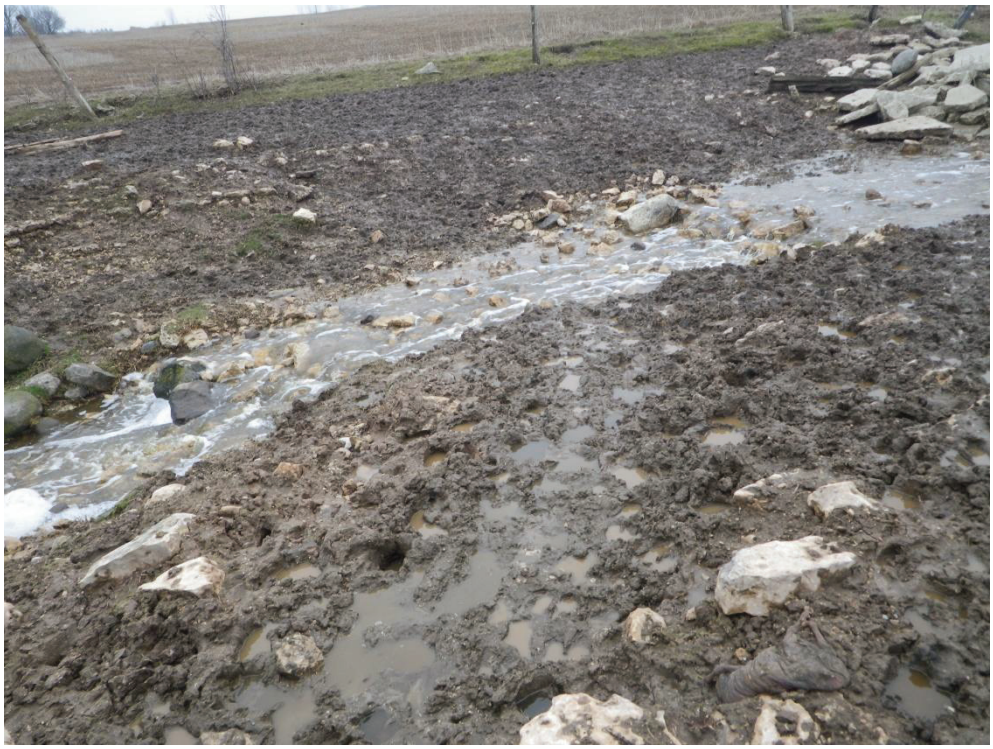
68: IMGP0321.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: Down

Description: Sample S06, wastewater from hole in the concrete pit.



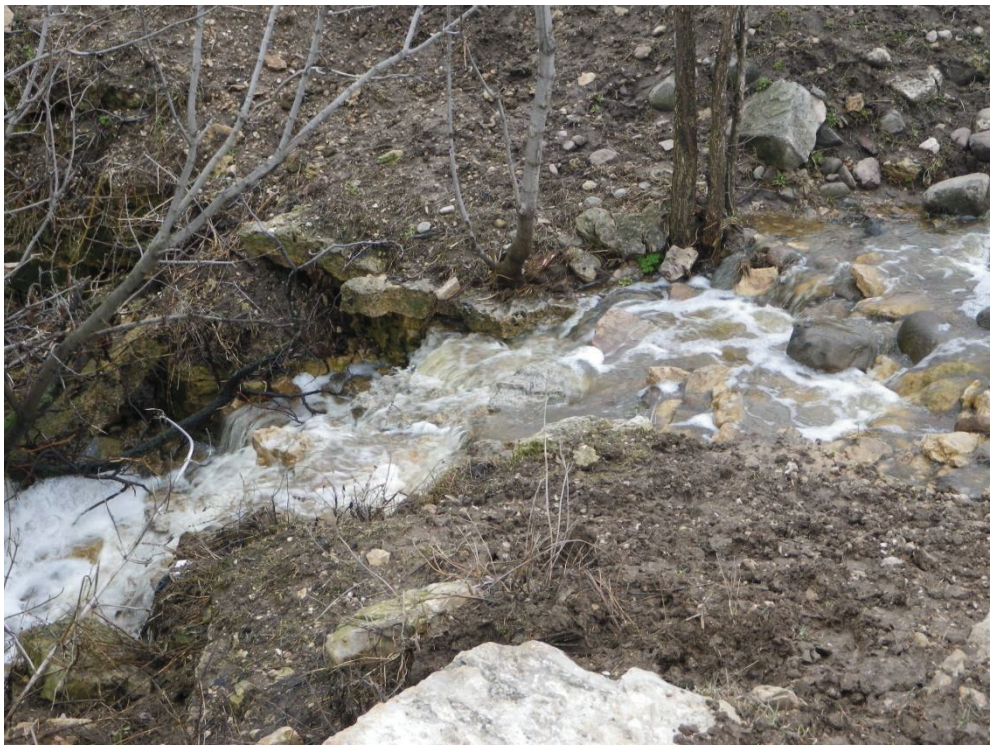
69: IMGP0322.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: East

Description: Flow pathway from drainage of the concrete pit to the unnamed tributary.



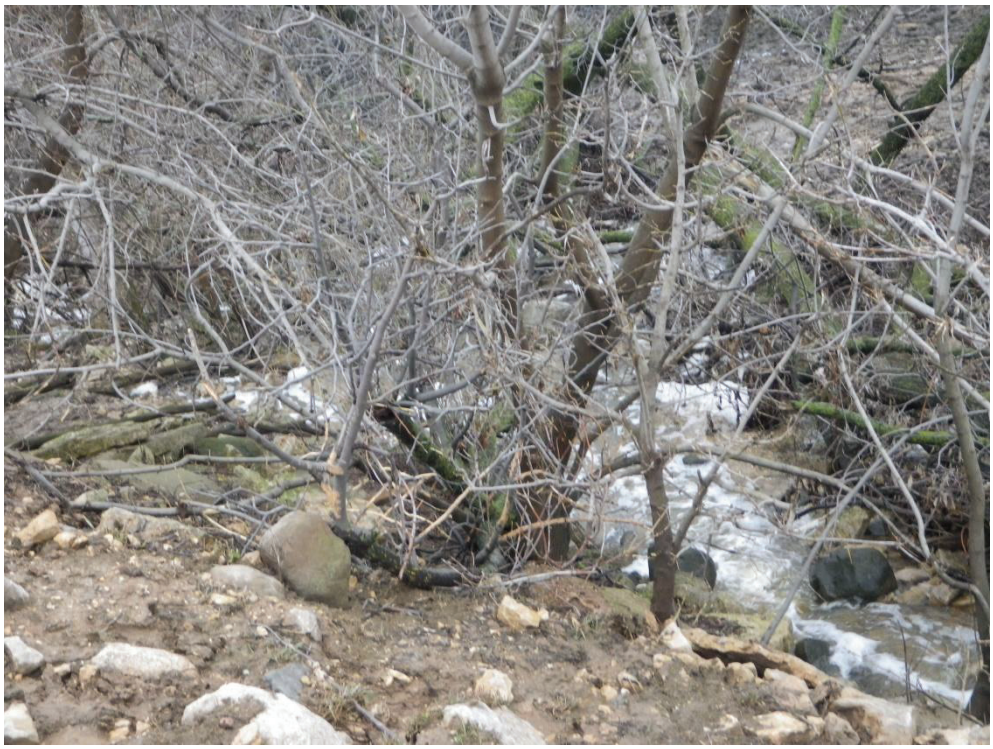
70: IMGP0323.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: Down

Description: Cattle had direct access to unnamed tributary which flows north through the east side of the production area.



71: IMGP0324.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: Cattle had direct access to unnamed tributary which flows north through the east side of the production area.

72: IMGP0325.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: Northeast

Description: Dead cow in the open lot.

73: IMGP0326.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: Northeast

Description: Dead cow in the open lot.

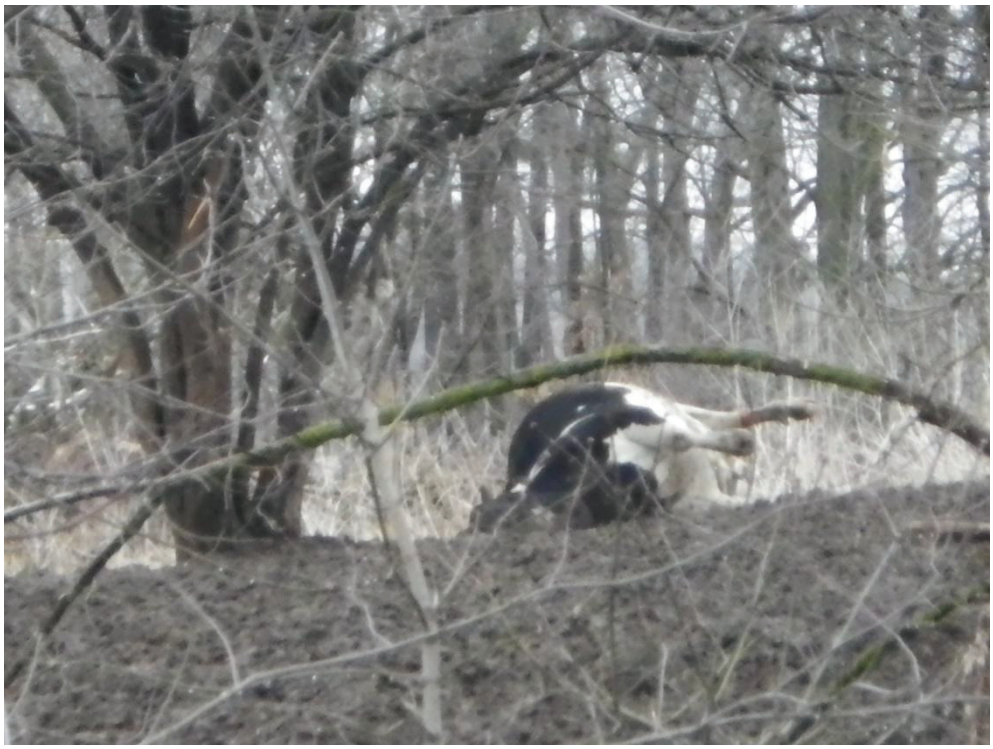
74: IMGP0327.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: Northeast

Description: Dead cow in the open lot.



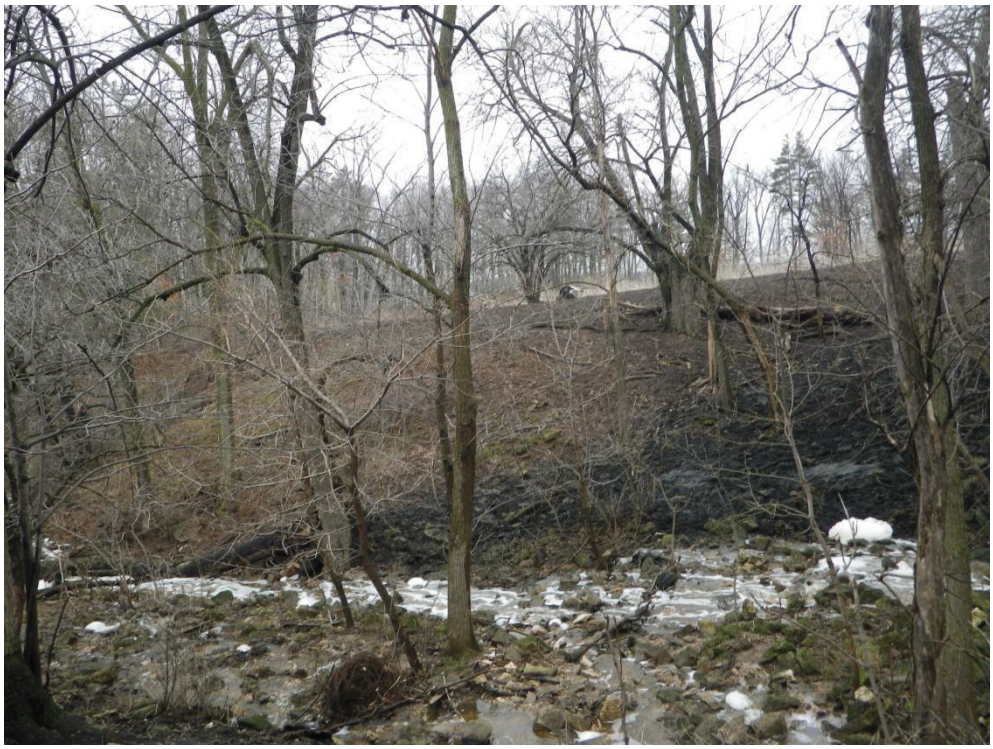
75: IMGP0328.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: Northeast

Description: Dead cow in the open lot.



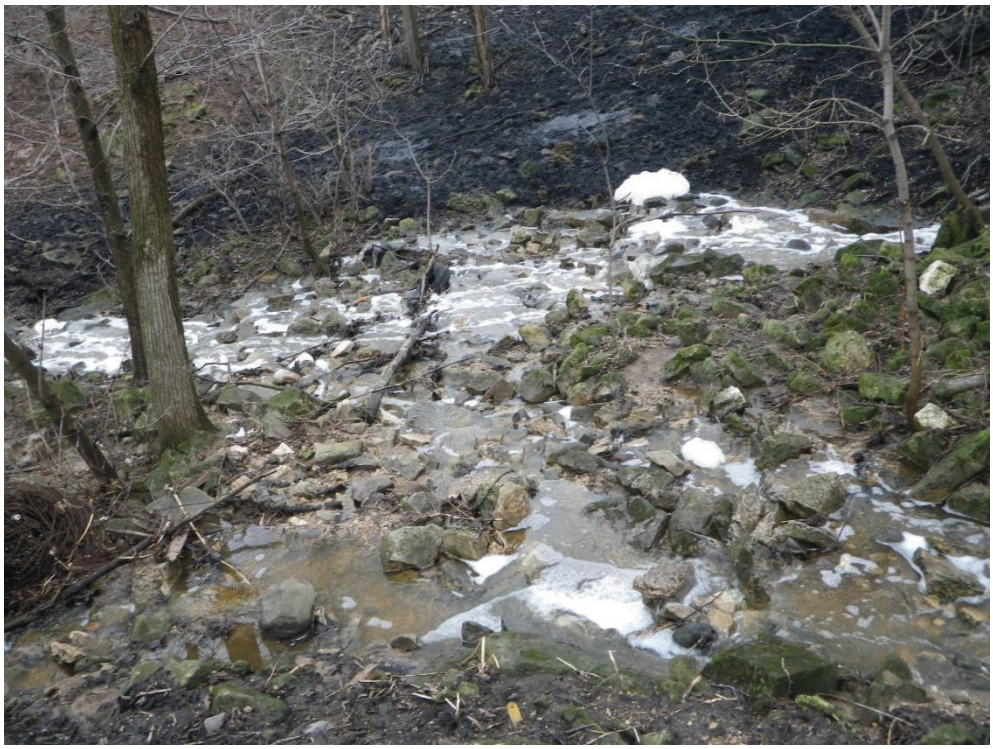
76: IMGP0329.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: Northeast

Description: Cattle had direct access to unnamed tributary which flows north through the east side of the production area.



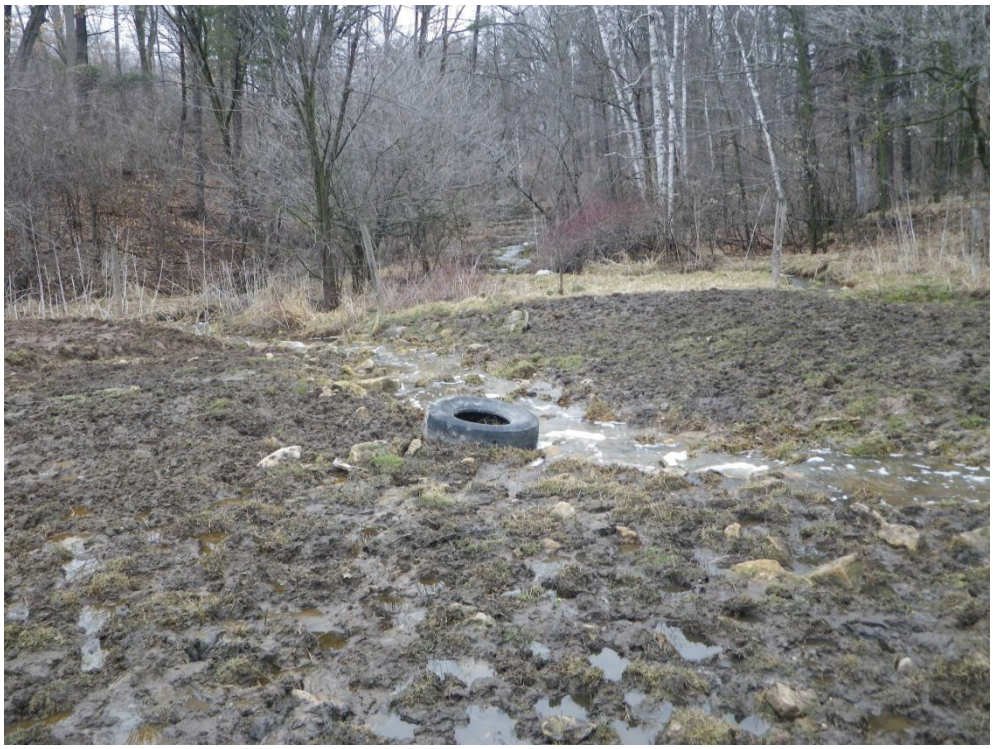
77: IMGP0330.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: Down

Description: Cattle had direct access to unnamed tributary which flows north through the east side of the production area.



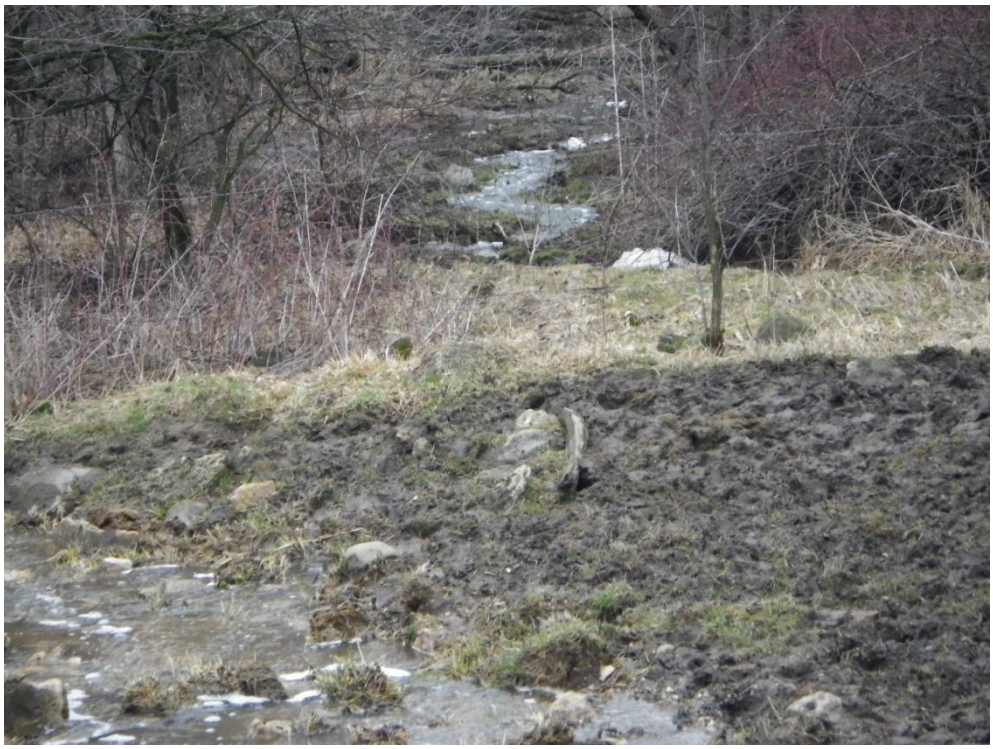
78: IMGP0331.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: Cattle had direct access to unnamed tributary which flows north through the east side of the production area



79: IMGP0332.JPG

Location: [redacted] Farms- Home Site

Photographer: Mike Lukowich

Camera Direction: North

Description: Cattle had direct access to unnamed tributary which flows north through the east side of the production area

Image	Size (byte)	Date and Time
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IMGP0256.JPG	2,162,849	4/18/2013 9:55:38 AM
IMGP0257.JPG	2,271,740	4/18/2013 9:55:52 AM
IMGP0258.JPG	2,244,326	4/18/2013 9:59:32 AM
IMGP0259.JPG	2,268,900	4/18/2013 9:59:36 AM
IMGP0260.JPG	2,289,380	4/18/2013 10:00:44 AM
IMGP0261.JPG	2,325,429	4/18/2013 10:00:54 AM
IMGP0262.JPG	2,195,612	4/18/2013 10:03:48 AM
IMGP0263.JPG	2,199,804	4/18/2013 10:21:28 AM
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IMGP0265.JPG	2,260,318	4/18/2013 10:22:18 AM
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IMGP0331.JPG	2,393,412	4/18/2013 1:20:50 PM
IMGP0332.JPG	2,422,372	4/18/2013 1:21:00 PM

ATTACHMENT 3: CONFIDENTIALITY NOTICE

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CONFIDENTIALITY NOTICE

Facility Name [redacted]	
Facility Address	
Inspector (print) Don Schuer	
U.S. EPA, Region VII, ~~901 N. 5th St., Kansas City, KS 66101~~	Date 9/18/2013

The United States Environmental Protection Agency (EPA) is obligated, under the Freedom of Information Act, to release information collected during inspections to persons who submit requests for that information. The Freedom of Information Act does, however, have provisions that allow EPA to withhold certain confidential business information from public disclosure. To claim protection for information gathered during this inspection you must request that the information be held CONFIDENTIAL and substantiate your claim in writing by demonstrating that the information meets the requirements in 40 CFR 2, Subpart B. The following criteria in Subpart B must be met:

1. Your company has taken measures to protect the confidentiality of the information, and it intends to continue to take such measures.

2. No statute specifically requires disclosure of the information.

3. Disclosure of the information would cause substantial harm to your company's competitive position.

Information that you claim confidential will be held as such pending a determination of applicability by EPA.

I have received this Notice and DO NOT want to make a claim of confidentiality at this time.	
Facility Representative Provided Notice (print) [redacted]	Signature/Date

I have received this Notice and DO want to make a claim of confidentiality.	
Facility Representative Provided Notice (print) [redacted]	Signature/Date

Information for which confidential treatment is requested;

(Rev: 11/15/99)

ATTACHMENT 4: FIELD SAMPLING RESULTS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 25, 2013

Kimberly O'neil
SAIC
McLean/Enterprise Center
8301 Greensboro Drive
Mc Lean, VA 22102

RE: Project: 13DS02 [redacted] FARM
Pace Project No.: 4076523

Dear Kimberly O'neil:
Enclosed are the analytical results for sample(s) received by the laboratory on April 18, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 13DS02 [redacted] FARM
Pace Project No.: 4076523

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 13DS02 [redacted] FARM
Pace Project No.: 4076523

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4076523001	**S02 SATELLITE 1**	Water	04/18/13 11:46	04/18/13 14:35
4076523002	**S03 SATELLITE 2**	Water	04/18/13 11:56	04/18/13 14:35
4076523003	**S04 MAIN 1**	Water	04/18/13 12:40	04/18/13 14:35
4076523004	**S05 MAIN 2**	Water	04/18/13 12:48	04/18/13 14:35
4076523005	**S06 MAIN 3**	Water	04/18/13 13:08	04/18/13 14:35

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SAMPLE ANALYTE COUNT

Project: 13DS02 [redacted] FARM
Pace Project No.: 4076523

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4076523001	S02 SATELLITE 1	SM 9222D	HKV	1	PASI-G
4076523002	S03 SATELLITE 2	SM 9222D	HKV	1	PASI-G
4076523003	S04 MAIN 1	SM 9222D	HKV	1	PASI-G
4076523004	S05 MAIN 2	SM 9222D	HKV	1	PASI-G
4076523005	S06 MAIN 3	SM 9222D	HKV	1	PASI-G

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 13DS02 [redacted] FARM
Pace Project No.: 4076523

Sample: S02 SATELLITE 1 **Lab ID: 4076523001** Collected: 04/18/13 11:46 Received: 04/18/13 14:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9222D MICRO Fecal Coli by MF	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	**11500000**	CFU/100 mL	100000	100000	100000	04/25/13 12:39	04/18/13 17:50		

Sample: S03 SATELLITE 2 **Lab ID: 4076523002** Collected: 04/18/13 11:56 Received: 04/18/13 14:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9222D MICRO Fecal Coli by MF	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	**500000**	CFU/100 mL	100000	100000	100000	04/25/13 12:39	04/18/13 17:50		

Sample: S04 MAIN 1 **Lab ID: 4076523003** Collected: 04/18/13 12:40 Received: 04/18/13 14:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9222D MICRO Fecal Coli by MF	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	**14500000**	CFU/100 mL	90900	90900	90900	04/25/13 12:39	04/18/13 17:50		

Sample: S05 MAIN 2 **Lab ID: 4076523004** Collected: 04/18/13 12:48 Received: 04/18/13 14:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9222D MICRO Fecal Coli by MF	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	**1460000**	CFU/100 mL	9090	9090	9090	04/25/13 12:39	04/18/13 17:50		

Sample: S06 MAIN 3 **Lab ID: 4076523005** Collected: 04/18/13 13:08 Received: 04/18/13 14:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
9222D MICRO Fecal Coli by MF	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	**2400000**	CFU/100 mL	100000	100000	100000	04/25/13 12:39	04/18/13 17:50		

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QUALITY CONTROL DATA

Project: 13DS02 [redacted] FARM
Pace Project No.: 4076523

QC Batch: MBIO/2817 Analysis Method: SM 9222D
QC Batch Method: SM 9222D Analysis Description: 9222D MICRO Fecal Coliform by MF
Associated Lab Samples: 4076523001, 4076523002, 4076523003, 4076523004, 4076523005

METHOD BLANK: 779725 Matrix: Water
Associated Lab Samples: 4076523001, 4076523002, 4076523003, 4076523004, 4076523005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1	1.0	04/18/13 17:50	

SAMPLE DUPLICATE: 779726

Parameter	Units	4076523001 Result	Dup Result	RPD	Max RPD	Qualifiers
Fecal Coliforms	CFU/100 mL	11500000	13900000			

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(920)469-2436

QUALIFIERS

Project: 13DS02 [redacted] FARM
Pace Project No.: 4076523

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 13DS02 [redacted] FARM
Pace Project No.: 4076523

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4076523001	**S02 SATELLITE 1**	SM 9222D	MBIO/2816	SM 9222D	MBIO/2817
4076523002	**S03 SATELLITE 2**	SM 9222D	MBIO/2816	SM 9222D	MBIO/2817
4076523003	**S04 MAIN 1**	SM 9222D	MBIO/2816	SM 9222D	MBIO/2817
4076523004	**S05 MAIN 2**	SM 9222D	MBIO/2816	SM 9222D	MBIO/2817
4076523005	**S06 MAIN 3**	SM 9222D	MBIO/2816	SM 9222D	MBIO/2817

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CHICAGO REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
Certificate # L2280 Testing

Date: 5/6/2013

Subject: Review of Region 5 Data for [redacted]

From: Colin Breslin, Chemist
Region 5 Chicago Regional Laboratory CB

To: Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-0375 for any comments or questions.

Attached are Results for: [redacted]

_____ / / _____

Data Management Coordinator and Date Received

Date Transmitted: ____/____/_____

Analyses included in this report:

BOD

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
Certificate # L2280 Testing

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	Reported:
Chicago IL, 60604	Project Manager: Don Schwer	May-06-13 12:25

ANALYSIS CASE NARRATIVE

Analyst Phone Number: (312) 886 - 2912

General Information

Six water samples were analyzed for 5 day biochemical oxygen demand (BOD5). Initial dissolved oxygen (DO) readings were taken on April 19, 2013 and final DO readings were taken on April 24, 2013. All holding times were met.

Sample Analysis and Results

The six samples were prepared and analyzed according to CRL SOP AIG006, Revision No: 4.0 (SM 5210B). For sample 1304017-01 (S01), the final dissolved oxygen (DO) readings did not result in valid final depletions of at least 2 mg/L DO below the initial DO values for all dilution levels analyzed. The sample result for 1304017-01 (S01) was reported as "U – not detected" at the reporting limit of 2 mg/L BOD5. Samples 1304017-02 (S02), 1304017-03 (S03), 1304017-04 (S04), 1304017-05 (S05), and 1304017-06 (S06) were flagged "J – The identification of the analyte is acceptable; the reported value is an estimate". See below under Quality Control for an explanation.

Quality Control

All quality control (QC) audits were within CRL limits, except as follows:

Laboratory Control Samples (LCS):
The glucose-glumatic acid (GGA) check standards were recovered at 71.8% and 63.9%, which were both below the lower control limit of 84.6%. Low recovery of the GGA check standard may indicate a weak seed solution or a degraded GGA solution. The observed seed strength was acceptable. Therefore, the low GGA recoveries were likely due to degradation in the GGA solutions used for analysis. Because the GGA recoveries were below the lower control limit the results for samples 1304017-02 (S02), 1304017-03 (S03), 1304017-04 (S04), 1304017-05 (S05), and 1304017-06 (S06) were flagged "J". This was the only impact expected for the overall dataset from this QC excursion.

CB 5/6/13

Colin Breslin, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	May-06-13 12:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01	1304017-01	Water	Apr-18-13 11:40	Apr-19-13 10:15
S02	1304017-02	Water	Apr-18-13 11:46	Apr-19-13 10:15
S03	1304017-03	Water	Apr-18-13 11:56	Apr-19-13 10:15
S04	1304017-04	Water	Apr-18-13 12:40	Apr-19-13 10:15
S05	1304017-05	Water	Apr-18-13 12:48	Apr-19-13 10:15
S06	1304017-06	Water	Apr-18-13 13:08	Apr-19-13 10:15

CB 5/6/13

Colin Breslin, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	May-06-13 12:25

BOD, 5 day, SM 5210 B (modified)

US EPA Region 5 Chicago Regional Laboratory

S01 (1304017-01) Water Sampled: Apr-18-13 11:40 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	**U**			2.0	mg/L	1	B304064	Apr-19-13	Apr-19-13

S02 (1304017-02) Water Sampled: Apr-18-13 11:46 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	**2700**	J		2.0	mg/L	1	B304064	Apr-19-13	Apr-19-13

S03 (1304017-03) Water Sampled: Apr-18-13 11:56 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	**1700**	J		2.0	mg/L	1	B304064	Apr-19-13	Apr-19-13

S04 (1304017-04) Water Sampled: Apr-18-13 12:40 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	**5400**	J		2.0	mg/L	1	B304064	Apr-19-13	Apr-19-13

S05 (1304017-05) Water Sampled: Apr-18-13 12:48 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	**940**	J		2.0	mg/L	1	B304064	Apr-19-13	Apr-19-13

S06 (1304017-06) Water Sampled: Apr-18-13 13:08 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Biochemical Oxygen Demand	**400**	J		2.0	mg/L	1	B304064	Apr-19-13	Apr-19-13

CB 5/6/13

Colin Breslin, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
Certificate # L2280 Testing

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	May-06-13 12:25

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

CB 5/6/13

Colin Breslin, Chemist

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.11:2005
	BOD	(Water)	Special Units: (mg/L)
B304064-BS1	BOD	Biochemical Oxygen Demand	Exceeds lower control limit
B304064-BS2	BOD	Biochemical Oxygen Demand	Exceeds lower control limit

CB 5/6/13

Sample, Log and Extraction Comments

1304017-01
BOD

pH = 5
pH = 5

1304017-02
BOD

pH = 6
pH = 6

1304017-03
BOD

pH = 7
pH = 7

1304017-04
BOD

pH = 8
pH = 8

1304017-05
BOD

pH = 8
pH = 8

1304017-06
BOD

pH = 7
pH = 7

CB 5/6/13

CB 5/6/13

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CHICAGO REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
Certificate # L2280 Testing

Date: 5/6/2013

Subject: Review of Region 5 Data for [redacted]

From: Colin Breslin, Chemist
Region 5 Chicago Regional Laboratory CB

To: Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-0375 for any comments or questions.

Attached are Results for: [redacted]

_____ / / _____

Data Management Coordinator and Date Received

Date Transmitted: ____/____/_____

Analyses included in this report:

Solids, TDS Solids, TSS

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
Certificate # L2280 Testing

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	May-06-13 13:23

ANALYSIS CASE NARRATIVE

Analyst Phone Number: (312) 886 - 2912

General Information

Six water samples were analyzed for total dissolved solids (TDS) on April 23, 2013. All holding times were met.

Note: All supporting data are archived with Work Order 1304016.

Sample Analysis and Results

The six samples for TDS were prepared and analyzed according to CRL SOP AIG017 Revision No: 4.6 (SM 2540 C). The results for samples 1304017-04 (S04) and 1304017-05 (S05) were flagged as "J – The identification of the analyte is acceptable; the reported value is an estimate". See below under Quality Control for an explanation.

Quality Control

All quality control (QC) audits were within CRL limits, except as follows:

Constant Drying Weight:
Samples 1304017-04 (S04) and 1304017-05 (S05) did not reach a constant dried weight of less than a difference of 0.5 mg after three consecutive drying cycles. The samples likely did not reach a constant weight because of the complex sample matrix, and were flagged "J". These were the only samples significantly impacted from this QC excursion.

General Information

Six water samples were analyzed for total suspended solids (TSS) on April 23, 2013. All holding times were met.

Note: All supporting data are archived with Work Order 1304016.

Sample Analysis and Results

The samples for TSS were prepared and analyzed according to CRL SOP AIG018 Revision No: 3.6 (SM 2540 D).

CB 5/6/13
Colin Breslin, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	May-06-13 13:23

Quality Control

All quality control (QC) audits were within CRL limits.

CB 5/6/13
Colin Breslin, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	May-06-13 13:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01	1304017-01	Water	Apr-18-13 11:40	Apr-19-13 10:15
S02	1304017-02	Water	Apr-18-13 11:46	Apr-19-13 10:15
S03	1304017-03	Water	Apr-18-13 11:56	Apr-19-13 10:15
S04	1304017-04	Water	Apr-18-13 12:40	Apr-19-13 10:15
S05	1304017-05	Water	Apr-18-13 12:48	Apr-19-13 10:15
S06	1304017-06	Water	Apr-18-13 13:08	Apr-19-13 10:15

CB 5/6/13
Colin Breslin, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	May-06-13 13:23

Dissolved Solids, SM 2540C (modified)
US EPA Region 5 Chicago Regional Laboratory

S01 (1304017-01) Water Sampled: Apr-18-13 11:40 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	U			20	mg/L	1	B304065	Apr-23-13	Apr-23-13

S02 (1304017-02) Water Sampled: Apr-18-13 11:46 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	**4450**			20	mg/L	1	B304065	Apr-23-13	Apr-23-13

S03 (1304017-03) Water Sampled: Apr-18-13 11:56 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	**2230**			20	mg/L	1	B304065	Apr-23-13	Apr-23-13

S04 (1304017-04) Water Sampled: Apr-18-13 12:40 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	**7710**	J		20	mg/L	1	B304065	Apr-23-13	Apr-23-13

S05 (1304017-05) Water Sampled: Apr-18-13 12:48 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	**2520**	J		20	mg/L	1	B304065	Apr-23-13	Apr-23-13

S06 (1304017-06) Water Sampled: Apr-18-13 13:08 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Dissolved Solids	**1420**			20	mg/L	1	B304065	Apr-23-13	Apr-23-13

CB 5/6/13
Colin Breslin, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	May-06-13 13:23

Total Suspended Solids, SM 2540 D (modified)
US EPA Region 5 Chicago Regional Laboratory

S01 (1304017-01) Water Sampled: Apr-18-13 11:40 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	U			5	mg/L	1	B304066	Apr-23-13	Apr-23-13

S02 (1304017-02) Water Sampled: Apr-18-13 11:46 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	**2930**			5	mg/L	1	B304066	Apr-23-13	Apr-23-13

S03 (1304017-03) Water Sampled: Apr-18-13 11:56 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	**204**			5	mg/L	1	B304066	Apr-23-13	Apr-23-13

S04 (1304017-04) Water Sampled: Apr-18-13 12:40 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	**3100**			5	mg/L	1	B304066	Apr-23-13	Apr-23-13

S05 (1304017-05) Water Sampled: Apr-18-13 12:48 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	**180**			5	mg/L	1	B304066	Apr-23-13	Apr-23-13

S06 (1304017-06) Water Sampled: Apr-18-13 13:08 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Suspended Solids	**2060**			5	mg/L	1	B304066	Apr-23-13	Apr-23-13

CB 5/6/13
Colin Breslin, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	May-06-13 13:23

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

CB 5/6/13

Colin Breslin, Chemist

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.11:2005
	Solids, TDS	(Water)	Special Units: (mg/L)
	Solids, TSS	(Water)	Special Units: (mg/L)
B304066-DUP1	Solids, TSS	Total Suspended Solids	Exceeds RPD control limit

CB 5/6/13

Sample, Log and Extraction Comments

1304017-01

Solids, TDS

pH = 5
pH = 5

Solids, TSS

pH = 5
pH = 5

1304017-02

Solids, TDS

pH = 6
pH = 6

Solids, TSS

pH = 6
pH = 6

1304017-03

Solids, TDS

pH = 7
pH = 7

Solids, TSS

pH = 7
pH = 7

1304017-04

Solids, TDS

pH = 8
pH = 8

Solids, TSS

pH = 8
pH = 8

1304017-05

Solids, TDS

pH = 8
pH = 8

Solids, TSS

pH = 8
pH = 8

1304017-06

Solids, TDS

pH = 7
pH = 7

Solids, TSS

pH = 7
pH = 7

CB 5/6/13

CB 5/6/13

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CHICAGO REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
Certificate # L2280 Testing

Date: 5/16/2013

Subject: Review of Region 5 Data for [redacted]

From: Anna Aleszczyk, Chemist
Region 5 Chicago Regional Laboratory

To: Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-0375 for any comments or questions.

Attached are Results for: [redacted]

_____ / / _____

Data Management Coordinator and Date Received

Date Transmitted: ____/____/_____

Analyses included in this report:

Ammonia N DA, Distilled

Nitrate-Nitrite N DA

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	May-16-13 12:54

ANALYSIS CASE NARRATIVE – Distilled Ammonia Nitrogen in Water

Work order #: 1304017
Phone #: (312) 353-9467

General Information
Six water samples were prepared and analyzed for Ammonia Nitrogen on May 7 – 8, 2013. All holding times were met.

NOTE: All supporting data are archived with work order number 1304016.

Sample Analysis and Results
The samples were prepared and analyzed for Ammonia Nitrogen in water using CRL SOP AIG029A, Revision # 2.0 (Reference Method, EPA 350.1). The samples were stored in the refrigerator at all times, except when in use.

Quality Control
All quality control audits were within CRL limits.

ANALYSIS CASE NARRATIVE – Nitrate-Nitrite Nitrogen in Water

Work order #: 1304017
Phone #: (312) 353-9467

General Information
Six water samples were analyzed for Nitrate-Nitrite Nitrogen on May 14, 2013. All holding times were met.

Note: All supporting data are archived with work order number 1304016.

Sample Analysis and Results
The samples were analyzed for Nitrate-Nitrite Nitrogen in water using CRL SOP AIG031A, Revision #1.0 (Standard Method 4500 – NO3- E). The samples were stored in the refrigerator at all times except when in use. Samples 1304017 -02 (S02), -03 (S03), -04 (S04), -05 (S05), and -06 (S06) were centrifuged prior to analysis to remove particulates.

AA 5-16-13
Anna Aleszczyk, Chemist

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Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
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Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	May-16-13 12:54

Quality Control

All quality control audits were within CRL limits.

AA 5-16-13

Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
Certificate # L2280 Testing

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	May-16-13 12:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01	1304017-01	Water	Apr-18-13 11:40	Apr-19-13 10:15
S02	1304017-02	Water	Apr-18-13 11:46	Apr-19-13 10:15
S03	1304017-03	Water	Apr-18-13 11:56	Apr-19-13 10:15
S04	1304017-04	Water	Apr-18-13 12:40	Apr-19-13 10:15
S05	1304017-05	Water	Apr-18-13 12:48	Apr-19-13 10:15
S06	1304017-06	Water	Apr-18-13 13:08	Apr-19-13 10:15

AA 5-16-13
Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	May-16-13 12:54

Ammonia Nitrogen, Colorimetric, EPA 350.1 (modified)
US EPA Region 5 Chicago Regional Laboratory

S01 (1304017-01) Water Sampled: Apr-18-13 11:40 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	**0.03**	J	0.03	0.10	mg/L	1	B305038	May-07-13	May-08-13

S02 (1304017-02) Water Sampled: Apr-18-13 11:46 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	**93.3**		3.00	10.0	mg/L	100	B305038	May-07-13	May-08-13

S03 (1304017-03) Water Sampled: Apr-18-13 11:56 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	**43.2**		0.30	1.00	mg/L	10	B305038	May-07-13	May-08-13

S04 (1304017-04) Water Sampled: Apr-18-13 12:40 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	**459**		15.0	50.0	mg/L	500	B305038	May-07-13	May-08-13

S05 (1304017-05) Water Sampled: Apr-18-13 12:48 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	**130**		3.00	10.0	mg/L	100	B305038	May-07-13	May-08-13

S06 (1304017-06) Water Sampled: Apr-18-13 13:08 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Ammonia as N	**35.5**		0.30	1.00	mg/L	10	B305038	May-07-13	May-08-13

AA 5-16-13
Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	May-16-13 12:54

Nitrate - Nitrite Nitrogen, SM 4500E (modified)

US EPA Region 5 Chicago Regional Laboratory

S01 (1304017-01) Water Sampled: Apr-18-13 11:40 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	**0.07**	J	0.07	0.25	mg/L	1	B305051	May-13-13	May-14-13

S02 (1304017-02) Water Sampled: Apr-18-13 11:46 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	**U**	U	0.07	0.25	mg/L	1	B305051	May-13-13	May-14-13

S03 (1304017-03) Water Sampled: Apr-18-13 11:56 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	**U**	U	0.07	0.25	mg/L	1	B305051	May-13-13	May-14-13

S04 (1304017-04) Water Sampled: Apr-18-13 12:40 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	**0.78**	J	0.70	2.50	mg/L	10	B305051	May-13-13	May-14-13

S05 (1304017-05) Water Sampled: Apr-18-13 12:48 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	**0.75**	J	0.35	1.25	mg/L	5	B305051	May-13-13	May-14-13

S06 (1304017-06) Water Sampled: Apr-18-13 13:08 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Nitrate-Nitrite N	**U**	U	0.07	0.25	mg/L	1	B305051	May-13-13	May-14-13

AA 5-16-13
Anna Aleszczyk, Chemist

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	May-16-13 12:54

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
*	This Quality Control measure meets the requirements of the CRL SOP for this analyte.
U	Not Detected
NR	Not Reported

AA 5-16-13

Anna Aleszczyk, Chemist

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.11:2005
	Ammonia N DA, Distilled	(Water)	J-Flags used
	Ammonia N DA, Distilled	(Water)	Result calculations based on MDL
	Ammonia N DA, Distilled	(Water)	Special Units: (mg/L)
	Nitrate-Nitrite N DA	(Water)	J-Flags used
	Nitrate-Nitrite N DA	(Water)	Result calculations based on MDL
	Nitrate-Nitrite N DA	(Water)	Special Units: (mg/L)
	Nitrate-Nitrite N DA	(Water)	U-Flags used
B305038-BLK1	Ammonia N DA, Distilled	Ammonia as N	*: This Quality Control measure meets the requirements of the CRL SOP for this analyte.
B305038-BLK1	Ammonia N DA, Distilled	Ammonia as N	Blank >1 x MDL

Sample, Log and Extraction Comments

1304017-01

Ammonia N DA, Distilled

pH = 1
pH = 1

Nitrate-Nitrite N DA

pH = 1
pH = 1

1304017-02

Ammonia N DA, Distilled

pH = 1
pH = 1, Initial = 5 mL

Nitrate-Nitrite N DA

pH = 1
pH = 1

1304017-03

Ammonia N DA, Distilled

pH = 1
pH = 1

Nitrate-Nitrite N DA

pH = 1
pH = 1

1304017-04

Ammonia N DA, Distilled

pH = 1
pH = 1, Initial = 1 mL

Nitrate-Nitrite N DA

pH = 1
pH = 1

1304017-05

Ammonia N DA, Distilled

pH = 1
pH = 1, Initial = 5 mL

Nitrate-Nitrite N DA

pH = 1
pH = 1

1304017-06

Ammonia N DA, Distilled

pH = 1
pH = 1, Initial = 5 mL

Nitrate-Nitrite N DA

pH = 1
pH = 1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CHICAGO REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
Certificate # L2280 Testing

Date: 6/5/2013

Subject: Review of Region 5 Data for [redacted]

From: Nidia Fuentes, Analyst
Region 5 Chicago Regional Laboratory

To: Water Division, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-0375 for any comments or questions.

Attached are Results for: [redacted]

_____ / / _____

Data Management Coordinator and Date Received

Date Transmitted: ____/____/_____

Analyses included in this report:

TKN DA	Total Phosphorus DA

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
Certificate # L2280 Testing

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	Jun-05-13 09:53

ANALYSIS CASE NARRATIVE

312-353-9079

General Information

Total of six samples to be analyzed for Total Phosphorus (TP) were received at the Chicago Regional Laboratory on April 19, 2013.

Supportive data such as instrument raw data, reagents preparation sheet and miscellaneous items are filed with work order 1304016.

Sample Analysis and Results

The samples for TP were digested and analyzed using CRL SOP AIG034A, Revision # 3.7, (EPA method 365.4.)

Quality Control

All quality control audits were within the CRL's limits, with the exception of sample matrix spike (MS).

Sample 1304017-03 (S03) DUP and MS required additional dilution. MS sample had no recovery (limits of 60% to 126%) due to spike been diluted out. No flagged will be apply.

ANALYSIS CASE NARRATIVE
312-353-9079

General Information

A total of six water samples to be analyzed for Total Kjeldahl Nitrogen (TKN) were received at the Chicago Regional Laboratory on April 19, 2013. All holding times were met, with the exception of sample 1304017-03 (S03).

Supportive data such as instrument raw data, reagents preparation sheet and miscellaneous items are filed with work order 1304016.

Nidia Fuentes, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
Certificate # L2280 Testing

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	Jun-05-13 09:53

Sample Analysis and Results

The water samples were digested and analyzed using AIG035A, revision 3.0 (Standard method 351.2).

The RPD (148%) for sample 1304017-03 (S03) analyzed on May 6, 2013 was above the acceptance criteria (RPD ≤ 14%). The sample, DUP and MS were re- analyzed on May 16, 2013. The data was inconsistent with the results from May 6, 2013. The sample, DUP and MS were re digested and analyzed again passed the holding time. This data was comparable with the first results and all the QC (DUP and MS) data passed. The final data will be reported out and the sample is flagged 'J' as estimated for exceeding hold time.

Quality Control

All quality control audits were within the CRL limits.

Nidia Fuentes, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	Jun-05-13 09:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01	1304017-01	Water	Apr-18-13 11:40	Apr-19-13 10:15
S02	1304017-02	Water	Apr-18-13 11:46	Apr-19-13 10:15
S03	1304017-03	Water	Apr-18-13 11:56	Apr-19-13 10:15
S04	1304017-04	Water	Apr-18-13 12:40	Apr-19-13 10:15
S05	1304017-05	Water	Apr-18-13 12:48	Apr-19-13 10:15
S06	1304017-06	Water	Apr-18-13 13:08	Apr-19-13 10:15

Nidia Fuentes, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	Jun-05-13 09:53

Phosphorus, Colorimetric, EPA 365.4 (modified)
US EPA Region 5 Chicago Regional Laboratory

S01 (1304017-01) Water Sampled: Apr-18-13 11:40 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	U		0.06	0.15	mg/L	1	B305035	May-03-13	May-06-13

S02 (1304017-02) Water Sampled: Apr-18-13 11:46 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	**134**		4.80	12.0	mg/L	80	B305035	May-03-13	May-07-13

S03 (1304017-03) Water Sampled: Apr-18-13 11:56 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	**27.0**		0.60	1.50	mg/L	10	B305035	May-03-13	May-06-13

S04 (1304017-04) Water Sampled: Apr-18-13 12:40 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	**135**		3.00	7.50	mg/L	50	B305035	May-03-13	May-06-13

S05 (1304017-05) Water Sampled: Apr-18-13 12:48 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	**47.1**		1.20	3.00	mg/L	20	B305035	May-03-13	May-06-13

S06 (1304017-06) Water Sampled: Apr-18-13 13:08 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Phosphorus	**27.2**		1.20	3.00	mg/L	20	B305035	May-03-13	May-06-13

Nidia Fuentes, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	Reported:
Chicago IL, 60604	Project Manager: Don Schwer	Jun-05-13 09:53

Total Kjeldahl Nitrogen, EPA 351.2 (modified)

US EPA Region 5 Chicago Regional Laboratory

S01 (1304017-01) Water Sampled: Apr-18-13 11:40 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	**0.77**		0.30	0.50	mg/L	1	B305035	May-03-13	May-06-13

S02 (1304017-02) Water Sampled: Apr-18-13 11:46 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	**12.9**	J	12.0	20.0	mg/L	40	B305035	May-03-13	May-06-13

S03 (1304017-03) Water Sampled: Apr-18-13 11:56 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	**113**	J	2.40	4.00	mg/L	8	B305067	May-28-13	May-29-13

S04 (1304017-04) Water Sampled: Apr-18-13 12:40 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	**1180**		30.0	50.0	mg/L	100	B305035	May-03-13	May-06-13

S05 (1304017-05) Water Sampled: Apr-18-13 12:48 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	**222**		12.0	20.0	mg/L	40	B305035	May-03-13	May-06-13

S06 (1304017-06) Water Sampled: Apr-18-13 13:08 Received: Apr-19-13 10:15

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Kjeldahl Nitrogen	**96.6**		12.0	20.0	mg/L	40	B305035	May-03-13	May-06-13

Nidia Fuentes, Analyst

Environmental Protection Agency Region 5
Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Water Division, US EPA Region 5	Project: [redacted]	
77 West Jackson Boulevard	Project Number: 13DS02	**Reported:**
Chicago IL, 60604	Project Manager: Don Schwer	Jun-05-13 09:53

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
*	This Quality Control measure meets the requirements of the CRL SOP for this analyte.
U	Not Detected
NR	Not Reported

Nidia Fuentes, Analyst

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.11:2005
	TKN DA	(Water)	J-Flags used
	TKN DA	(Water)	Result calculations based on MDL
	TKN DA	(Water)	RPD calculations based on %Recovery
	TKN DA	(Water)	Special Units: (mg/L)
	Total Phosphorus DA	(Water)	J-Flags used
	Total Phosphorus DA	(Water)	Result calculations based on MDL
	Total Phosphorus DA	(Water)	RPD calculations based on %Recovery
	Total Phosphorus DA	(Water)	Special Units: (mg/L)
1304017-03	TKN DA		Sampled->Prepared > 28.00 days
B305035-BLK2	TKN DA	Total Kjeldahl Nitrogen	*: This Quality Control measure meets the requirements of the CRL SOP for this analyte.
B305035-BLK2	TKN DA	Total Kjeldahl Nitrogen	Blank >1 x MDL
B305035-MS2	TKN DA	Total Kjeldahl Nitrogen	Exceeds lower control limit
B305035-MS3	Total Phosphorus DA	Total Phosphorus	Exceeds lower control limit

Sample, Log and Extraction Comments

1304017-01
TKN DA

pH = 1
pH = 1

Total Phosphorus DA

pH = 1
pH = 1

1304017-02
TKN DA

pH = 1
pH = 1, Initial=5ml

Total Phosphorus DA

pH = 1
pH = 1, Initial=5ml

1304017-03
TKN DA

pH = 1
pH = 1, Initial=5ml

Total Phosphorus DA

pH = 1
pH = 1

1304017-04
TKN DA

pH = 1
pH = 1, Initial=2ml

Total Phosphorus DA

pH = 1
pH = 1, Initial=2ml

1304017-05
TKN DA

pH = 1
pH = 1, Initial=5ml

Total Phosphorus DA

pH = 1
pH = 1, Initial=5ml

1304017-06
TKN DA

pH = 1
pH = 1, Initial=5ml

Total Phosphorus DA

pH = 1
pH = 1, Initial=5ml